Dell™ S300wi Projector

User's Guide

Notes, Notices, and Cautions

NOTE: A NOTE indicates important information that helps you make better use of your projector.

NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

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Model S300wi

April 2010 Rev. A00

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1

Your Dell Projector

Your projector comes with all the items shown below. Ensure that you have all the items, and contact Dell™ if anything is missing.

Package Contents	
Power cable	1.8m VGA cable (VGA to VGA)
Antenna	Remote control
CD User's Guide & Documentation	AAA Batteries (2)
USB cable (USB-A to USB-B)	Interactive Pen

Package Contents ***(continued)***

AA Alkaline Batteries (2)

Interwrite Workspace CD

Wrist Strap

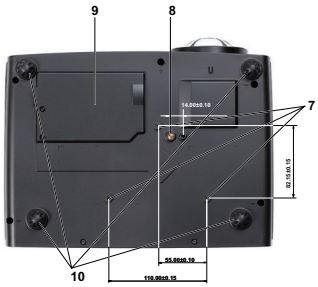
Nib

5m Mini USB Cable (USB-A to Mini USB-B)

About Your Projector

Top View

Bottom View

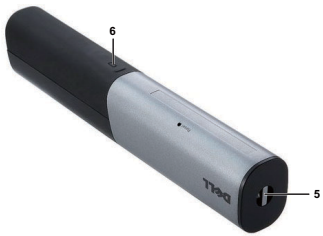


1	Control panel
2	Focus tab
3	Lens
4	IR receivers
5	Lens cap
6	Antenna
7	Mounting holes for wall mount: Screw hole M3 x 6.5mm depth. Recommended torque <8 kgf-cm
8	Mounting hole for tripod: Insert nut 1/4"*20 UNC
9	Lamp cover
10	Tilt adjustment wheel

About Your Interactive Pen

Top View

Bottom View



1	Replaceable nib
2	Lens
3	Control panel
4	LED indicators
5	Security bar
6	Battery cover

⚠ CAUTION: Safety Instructions

1 Do not use the projector near appliances that generate a lot of heat.

2 Do not use the projector in areas where there is an excessive amount of dust. The dust may cause the system to fail and the projector will automatically shutdown.

3 Ensure that the projector is mounted in a well-ventilated area.

4 Do not block the ventilation slots and openings on the projector.

5 Ensure the projector operates between ambient temperatures (5ºC to 35ºC).

6 Do not try to touch the ventilation outlet as it can become very hot after the projector has been turned on or immediately after it is turned off.

7 Do not look into the lens while the projector is on as it may cause injury to your eyes.

8 Do not place any objects near or in front of the projector or cover its lens while the projector is on as the heat may cause the object to melt or burn.

9 Do not use the wireless projector near cardiac pacemakers.

10 Do not use the wireless projector near medical equipment.

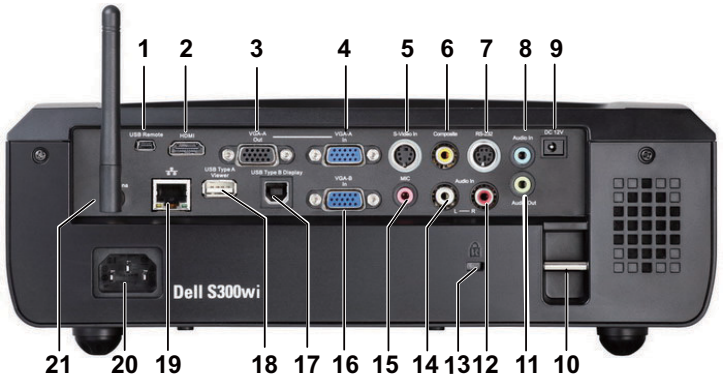
11 Do not use the wireless projector near microwave ovens.

NOTE:

- Do not attempt to wall mount the projector by yourself. It should be installed by a qualified technician.
- Recommended Projector Wall Mount Kit (P/N: 4TVT8/V3RTH). For more information, see the Dell Support website at **support.dell.com**.
- For more information, see the *Safety Information* that shipped with your projector.
- S300wi projector is designed for indoor use only.

2

Connecting Your Projector



1	Mini USB for remote mouse, Interactive function and Firmware upgrade.	12	Audio-B right-channel input connector
2	HDMI connector	13	Security cable slot
3	VGA-A output (monitor loop-through)	14	Audio-B left-channel input connector
4	VGA-A input (D-sub) connector	15	Microphone connector
5	S-Video connector	16	VGA-B input (D-sub) connector
6	Composite Video connector	17	USB Type B Display connector
7	RS232 connector	18	USB Type A Viewer connector
8	Audio-A input connector connector	19	RJ45 connector
9	+12V DC out connector	20	Power code connector
10	Security bar	21	Antenna connector
11	Audio output connector		

CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions as described on page 10.

Installing the Antenna

Your projector comes with a wireless antenna for wireless networking. Refer to "Wireless Networking Installation" on page 68.

1 Screw the antenna to the antenna connector at the back of your projector.

2 Raise the antenna to position as shown.

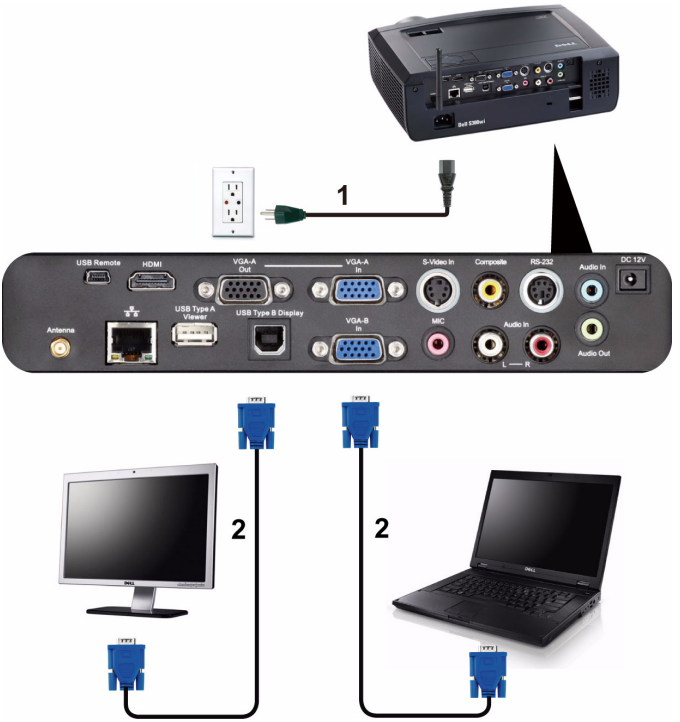
Connecting to a Computer

Connecting a Computer Using a VGA Cable

1	Power cord
2	VGA to VGA cable
3	USB-A to Mini USB-B cable

NOTE: The Mini USB cable must be connected if you want to use the Page Up and Page Down features on the remote control.

Monitor Loop-Through Connection Using VGA Cables



1	Power cord
2	VGA to VGA cable

NOTE: Only one VGA cable is shipped with your projector. An additional VGA cable can be purchased on the Dell website at **www.dell.com**.

Connecting a Computer Using a RS232 cable

1	Power cord
2	RS232 cable

NOTE: The RS232 cable is not shipped with your projector. Consult a professional installer for the cable and RS232 remote control software.

Connecting a Computer Using an USB Display

1	Power Code
2	USB-A to USB-B cable

NOTE: See "USB Display Driver Installation" on page 76 for installing USB Driver.

Connecting a Computer Using Wireless

NOTE: You computer should be wirless equipped and configured properly to detect the wireless connection. Refer to your computer's documentation on how to configure wireless connection.

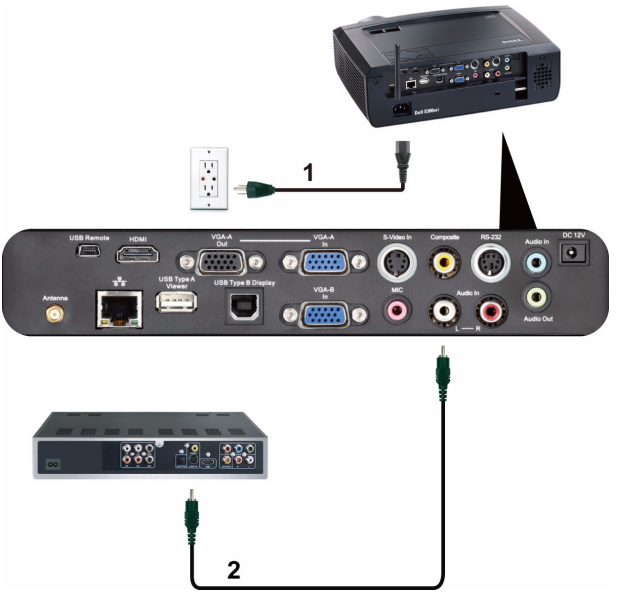
Connecting a DVD Player

Connecting a DVD Player Using a S-Video Cable

1	Power cord
2	S-Video cable

NOTE: The S-Video cable is not shipped with your projector. You can purchase the S-Video extension (50 ft/100 ft) cable on the Dell website at **www.dell.com**.

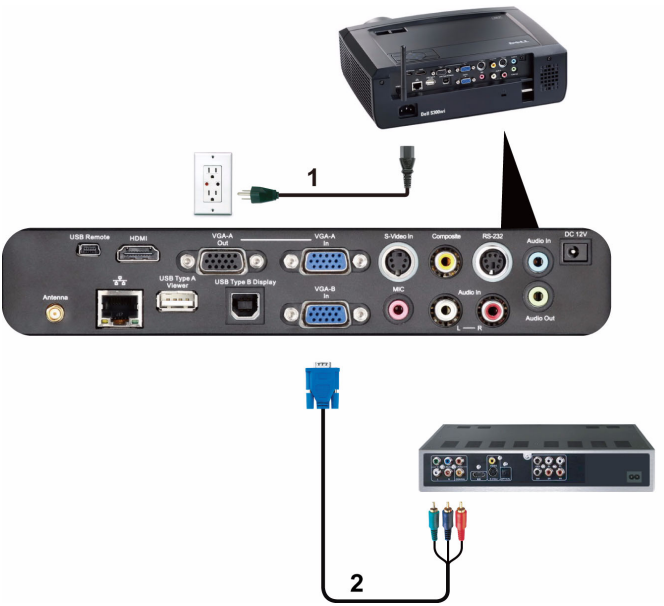
Connecting a DVD Player Using a Composite Video Cable



1	Power cord
2	Composite Video cable

NOTE: The Composite Video cable is not shipped with your projector. You can purchase the Composite Video Extension (50 ft/100 ft) cable on the Dell website at **www.dell.com**.

Connecting a DVD Player Using a Component Video Cable



1	Power cord
2	VGA to Component Video cable

NOTE: The VGA to Component Video cable is not shipped with your projector. You can purchase the VGA to Component Video Extension (50 ft/100 ft) cable on the Dell website at **www.dell.com**.

Connecting a DVD Player Using a HDMI Cable

1	Power cord
2	HDMI cable

NOTE: The HDMI cable is not shipped with your projector. You can purchase the HDMI cable on the Dell website at www.dell.com.

Connecting to Local Area Network

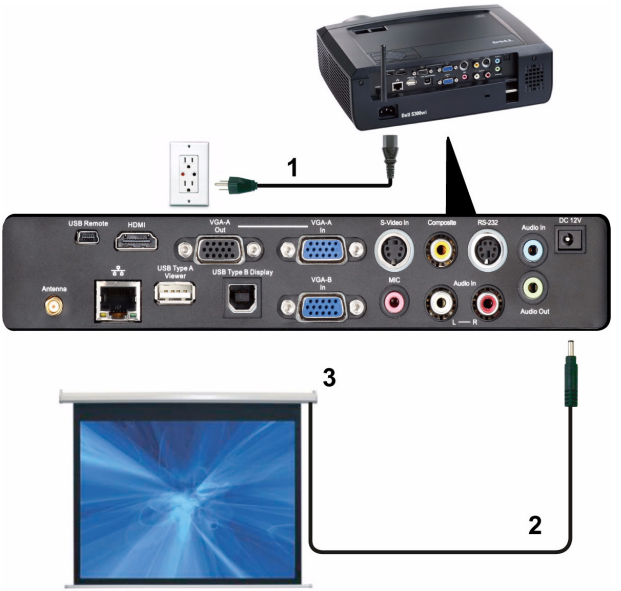
To project an image and control the projector that is connected to a network through a RJ45 cable.

Local Area Network (LAN)

1	Power cord
2	RJ45 cable

NOTE: The RJ45 cable is not shipped with your projector. You can purchase the RJ45 cable on the Dell website at www.dell.com.

Professional Installation Options: Installation for Driving Automatic Screen

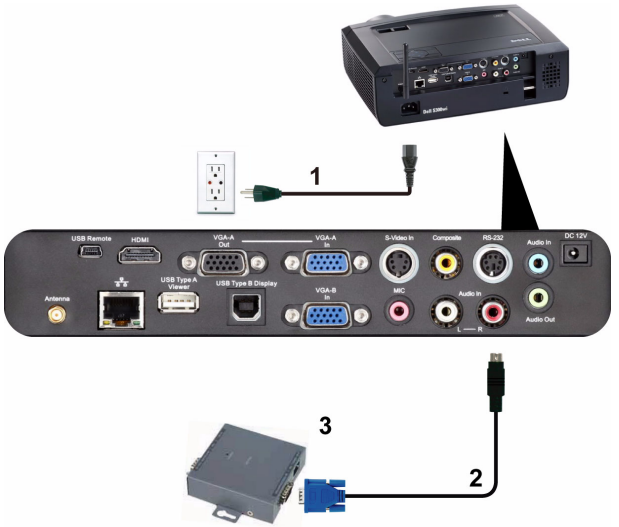


1	Power cord
2	12V DC Plug
3	Automatic Screen

NOTE: Use the dimension of 12V DC plug in 1.7 mm (ID) x 4.00 mm (OD) x 9.5 mm (shaft) to connect the automatic screen with the projector.

12V DC Plug

Connection With Commercial RS232 Control Box



1	Power cord
2	RS232 cable
3	Commercial RS232 control box

NOTE: The RS232 cable is not shipped with your projector. Consult a professional technician to obtain the cable.

Connecting with your Interactive Pen

1	Power Code
2	VGA to VGA Cable
3	USB-A to Mini USB-B Cable
4	Automation Screen
5	12V DC Plug
6	Interactive Pen

NOTE:

1 Interactivity is supported only in the following input modes: VGA and HDMI from a PC, and Wireless Display, USB Display, and LAN Display.

2 To enable Interactive Pen, the 2nd connection between computer and projector is required. 3 options for your computer and projector connection are available:

   a use Mini USB cable

   b use LAN cable (need to install Dell Wireless Application Software)

   c use WLAN (need to install Dell Wireless Application Software)

   If you use LAN or WLAN connection, ensure that Wireless / Network is turned on first.

3 Automation Screen is optional.

4 If the distance between your PC/laptop and projector is over 5 meters, USB hub is recommended to your installation.

3

Using Your Projector

Turning Your Projector On

NOTE: Turn on the projector before you turn on the source (computer, DVD player, etc.). The **Power** button light blinks blue until pressed.

1 Remove the lens cap.

2 Connect the power cord and appropriate signal cables to the projector. For information about connecting the projector, see "Connecting Your Projector" on page 12.

3 Press the **Power** button (see "Using the Control Panel" on page 33 to locate the **Power** button).

4 Turn on your source (computer, DVD player, etc.)

5 Connect your source to the projector using the appropriate cable. See "Connecting Your Projector" on page 12 for instructions to connect your source to the projector.

6 By default, the input source of the projector is set to VGA-A. Change the input source of the projector if necessary.

7 If you have multiple sources connected to the projector, press the **Source** button on the remote control or control panel to select the desired source. See "Using the Control Panel" on page 33 and "Using the Remote Control" on page 35 to locate the **Source** button.

Turning Your Projector Off

NOTICE: Unplug the projector after properly shutting down as explained in the following procedure.

1 Press the **Power** button. Follow the instruction displayed on screen to properly turn off the projector.

NOTE: The "**Press Power Button to Turn off Projector**" message will appear on the screen. The message disappears after 5 seconds or you can press the **Menu** button to clear it.

2 Press the **Power** button again. The cooling fans continue to operate for 120 seconds.

3 To power off the projector quickly, press the Power button and hold for 1 second while the projector's cooling fans are still running.

NOTE: Before you turn on the projector again, wait for 60 seconds to allow the internal temperature to stabilize.

4 Disconnect the power cord from the electrical outlet and the projector.

Adjusting the Projected Image

Raising the Projector Height

1 Raise the projector to the desired display angle, and use the front two tilt adjustment wheel to fine-tune the display angle.

2 Use the two tilt adjustment wheel to fine-tune the display angle.

Lowering the Projector Height

1 Lower the projector, and use the front two tilt adjustment wheel to fine-tune the display angle.

1	Front tilt adjustment wheel (Angle of tilt: -1 to 4 degree)
2	Tilt adjustment wheel

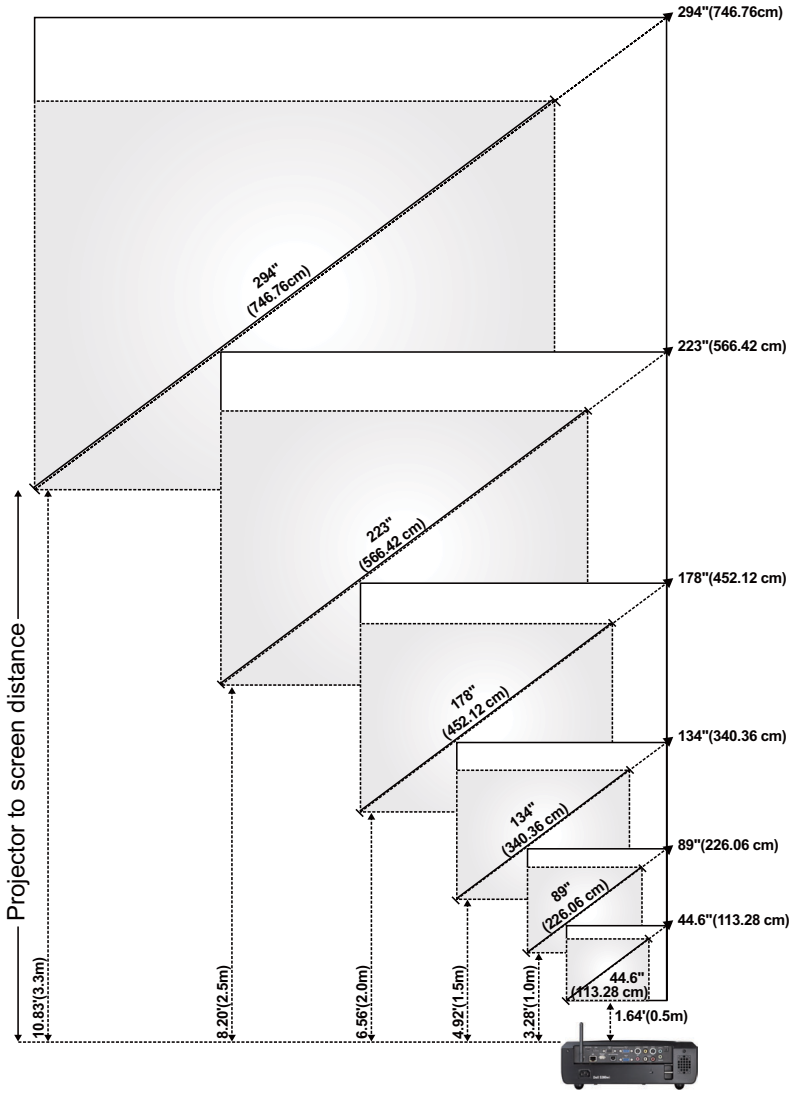
Adjusting the Projector Focus

CAUTION: To avoid damaging the projector, ensure that the elevator foot are fully retracted before moving the projector or placing the projector in its carrying case.

1 Rotate the focus tab until the image is clear. The projector focuses at distances ranging between 1.64 ft to 10.83 ft (0.5 m to 3.3 m).

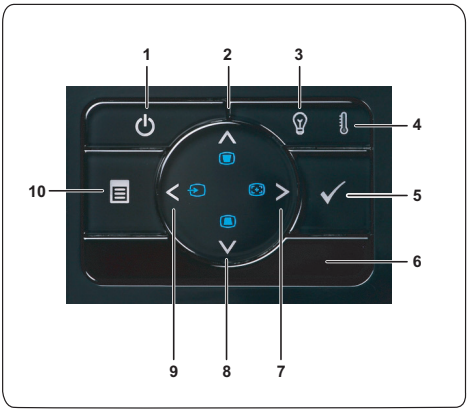
1	Focus tab

Adjusting Projection Image Size



Screen (Diagonal)	Max.	44.6" (113.28 cm)	89" (226.06 cm)	134" (340.36cm)	178" (452.12 cm)	223" (566.42 cm)	294" (746.76 cm)
	Min.	44.6" (113.28 cm)	89" (226.06 cm)	134" (340.36cm)	178" (452.12 cm)	223" (566.42 cm)	294" (746.76cm)
Screen Size	Max. (WxH)	37.80" X 23.62"	75.59" X 47.24"	113.39" X 70.87"	151.18" X 94.49"	188.98" X 118.11"	249.21" X 155.91"
		(96 cm X 60 cm)	(192 cm X 120 cm)	(288 cm X 180 cm)	(384 cm X 240 cm)	(480 cm X 300 cm)	(633 cm X 396 cm)
	Min. (WxH)	37.80" X 23.62"	75.59" X 47.24"	113.39" X 70.87"	151.18" X 94.49"	188.98" X 118.11"	249.21" X 155.91"
		(96 cm X 60 cm)	(192 cm X 120 cm)	(288 cm X 180 cm)	(384 cm X 240 cm)	(480 cm X 300 cm)	(633 cm X 396 cm)
Hd	Max.	2.93" (7.44 cm)	5.86" (14.87 cm)	8.79" (22.32 cm)	11.71" (29.74 cm)	14.64" (37.19 cm)	19.33" (49.09 cm)
	Min.	2.93" (7.44 cm)	5.86" (14.87 cm)	8.79" (22.32 cm)	11.71" (29.74 cm)	14.64" (37.19 cm)	19.33" (49.09 cm)
Distance		1.64' (0.5m)	3.28' (1.0m)	4.92' (1.5m)	6.56' (2.0m)	8.20' (2.5m)	10.83' (3.3m)
* This graph is for user reference only.							

Using the Control Panel



1	Power	Turns the projector on or off. For more information, see "Turning Your Projector On" on page 28 and "Turning Your Projector Off" on page 28.
2	Up / Keystone adjustment	Press to navigate through the On-Screen Display (OSD) Menu items. Press to adjust image distortion caused by tilting the projector (+40/-35 degrees).
3	LAMP warning light	If the LAMP amber indicator is on or blinking, one of the following problems could be occurring: • Lamp is reaching its end of usable life • Lamp module is not properly installed • Lamp driver failure • Color wheel failure For more information, see "Troubleshooting Your Projector" on page 103 and "Guiding Signals" on page 108.

4	TEMP warning light	If the TEMP amber indicator is on or blinking, one of the following problems could be occurring: • Internal temperature of the projector is too high • Color wheel failure For more information, see "Troubleshooting Your Projector" on page 103 and "Guiding Signals" on page 108.
5	Enter	Press to confirm the selection item.
6	IR Receiver	Point the remote control towards the IR receiver and press a button.
7	Right / Auto Adjust	Press to navigate through the On-Screen Display (OSD) Menu items. Press to synchronize the projector to the input source. **NOTE: Auto Adjust** does not operate if the on-screen display (OSD) is displayed.
8	Down / Keystone adjustment	Press to navigate through the On-Screen Display (OSD) Menu items. Press to adjust image distortion caused by tilting the projector (+40/-35 degrees).
9	Left / Source	Press to navigate through the On-Screen Display (OSD) Menu items. Press to toggle through Analog RGB, Composite, Component (YPbPr via VGA), HDMI, and S-Video sources when multiple sources are connected to the projector.
10	Menu	Press to activate the OSD. Use the directional keys and the **Menu** button to navigate through the OSD.

Using the Remote Control

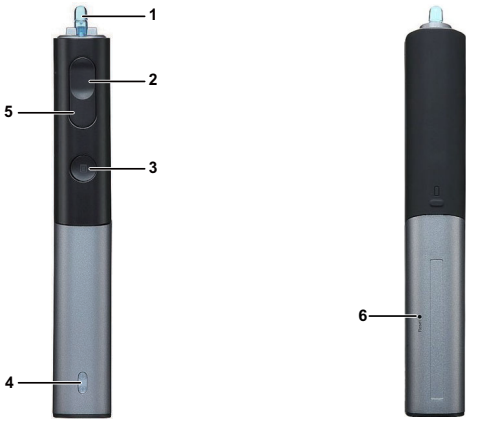
1	Power	Turns the projector on or off. For more information, see "Turning Your Projector On" on page 28 and "Turning Your Projector Off" on page 28.
2	Enter	Press to confirm the selection.
3	Right	Press to navigate through the On-Screen Display (OSD) Menu items.
4	Down	Press to navigate through the On-Screen Display (OSD) Menu items.

5	Laser	Point the remote control at the screen, press and hold the laser button to activate the laser light. **CAUTION: Do not look at the laser point when it is active. Avoid directing the laser light on your eyes.**
6	Aspect Ratio	Press to change aspect ratio of a displayed image.
7	Keystone adjustment	Press to adjust image distortion caused by tilting the projector (+40/-35 degrees).
8	Page up	Press to move to previous page. **NOTE:** The Mini USB cable must be connected if you want to use the Page Up feature.
9	Page down	Press to move to next page. **NOTE:** The Mini USB cable must be connected if you want to use the Page Down feature.
10	Keystone adjustment	Press to adjust image distortion caused by tilting the projector (+40/-35 degrees).
11	S-Video	Press to choose S-Video source.
12	Video	Press to choose Composite Video source.
13	Video mode	The projector has preset configurations that are optimized for displaying data (presentation slides) or video (movies, games, etc.). Press the **Video Mode** button to toggle between **Presentation mode**, **Bright mode**, **Movie mode**, **sRGB**, or **Custom mode**. Pressing the **Video Mode** button once will show the current display mode. Pressing the **Video Mode** button again will switch between modes.
14	Blank screen	Press to hide/unhide the image.
15	Up	Press to navigate through the On-Screen Display (OSD) Menu items.
16	Left	Press to navigate through the On-Screen Display (OSD) Menu items.

17	Menu	Press to activate the OSD.
18	Mute	Press to mute or un-mute the projector speaker.
19	Zoom +	Press to increase the image.
20	Zoom -	Press to decrease the image.
21	Volume up	Press to increase the volume.
22	Volume down	Press to decrease the volume.
23	Freeze	Press to pause the screen image, then press "Freeze" again to unfreeze image.
24	VGA	Press to choose VGA source.
25	Source	Press to switch between Analog RGB, Composite, Component (YPbPr, via VGA), HDMI, and S-Video source.
26	Auto Adjust	Press to synchronize the projector with the input source. Auto adjust does not operate if the OSD is displayed.

Using the Interactive Pen

Top View ***Bottom View***



1	Replaceable nib	Press the nib to draw or write. When the nib is engaged, it works like left clicking your mouse to draw or write. **NOTE:** • If the nib is engaged, the Pen will switch to Draw mode and the button function will be disabled. • When the nib wears out, change the nib head as shown below.

2	Left	This button acts like the left click button of a mouse.
3	Function	Functions available are listed in OSD Menu "Set function" (see page 64). **NOTE:** Double click Function button will act as Undo, if supported by the software.
4	LED indicators	Two LED indicators are available: Green and Amber (see on "Interactive Pen LED Guiding Signals" on page 110).
5	Right	This button acts like the right click button of a mouse.
6	Reset	Press to reset the interactive pen configuration.

NOTE: OSD warning messages - low battery

- The Low Battery warning message pops up when the battery voltage is lower than 2V. At this condition, the pen can still work about 1~2 hours.
- The pen will be disabled when the battery voltage is lower than 1.8V.

NOTE: OSD warning messages - out of range

The situations below may cause the pen sensor out of range:

- The pen doesn't point toward the screen.
- The pen is too far away from the screen.
- The projector brightness is too low for detection.

NOTE: Combinations of buttons

- **Left + Function:** The Pen Information menu appears on the screen.
- **Right + Function:** The Set Function menu appears on the screen. Use Left/Right to move up/down and use Function to enter/apply.
- When Toggle is selected in the Set Function menu, press the Function button to select Normal/Draw/Stable mode.

NOTE: Interactive pen cannot support Windows Mouse property function "Switch primary and secondary buttons".

Using the Wrist Strap

Please use the wrist strap as a safety precaution in the case of loss of grip on the Interactive Pen, and prevent damage to the Interactive Pen, surrounding objects, or injury to other people.

1 Feed the cord on the wrist strap through the connector bar.

2 Wear the wrist strap on your wrist.

Installing the Remote Control Batteries

NOTE: Remove the batteries from the remote control when not in use.

1 Press the tab to lift the battery compartment cover.

2 Check the polarity (+/-) marking on the batteries.

3 Insert the batteries and align their polarity correctly according to the marking in the battery compartment.

NOTE: Avoid mixing different types of batteries or using new and old batteries together.

4 Slip the battery cover back.

Installing the Interactive Pen Batteries

NOTE: Remove the batteries from the interactive pen when not in use for a long time.

1 Press the tab to lift the battery slot cover.

2 Check the polarity (+/-) marking on the batteries.

NOTE: Recommend to use two AA 1.5V alkaline batteries for longer battery life. The life duration may be varied from different brands/manufacturers of alkaline battery.

3 Insert the batteries according to the polarity marking in the battery slot.

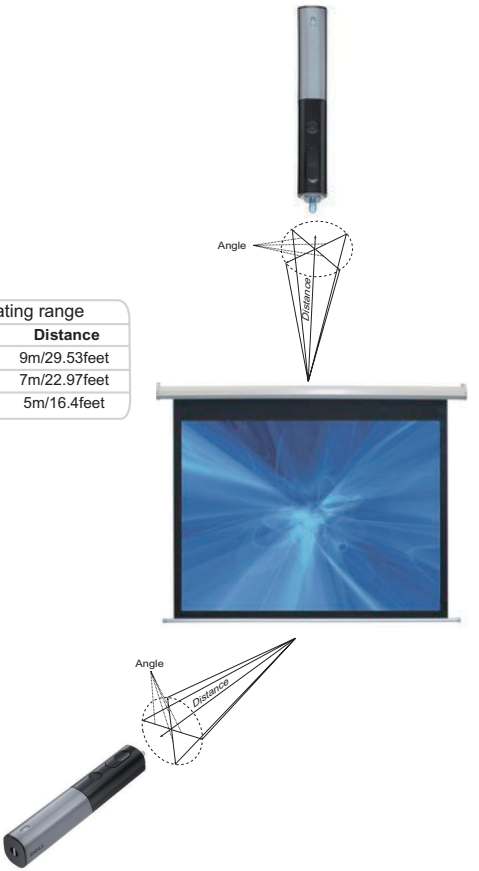
NOTE: Avoid mixing different types of batteries or using new and old batteries together.

4 Slip the battery slot cover back.

Operating Range with Remote Control

NOTE: Actual operating range may slightly differ from the diagram. Weak batteries will also prevent the remote control from properly operating the projector.

Operating Range with Interactive Pen



Operating range	
Angle	**Distance**
0°	9m/29.53feet
20°	7m/22.97feet
45°	5m/16.4feet

NOTE:

- Projector is at 2000 lm brightness, with 100 inches image size, and in Bright mode.
- Can support multiple pens (up to 7 pens) connecting to one projector but the pens cannot be used simultaneously.
- Actual operating range may slightly differ from the diagram.
- The projector brightness decay will affect the operating range of the pen.

Using the On-Screen Display

- The projector has a multi-language On-Screen Display (OSD) Menu that can be displayed with or without an input source.
- Press the Menu button on the control panel or the remote control to enter the Main Menu.
- To navigate through the tabs in the Main Menu, press the < or > buttons on your projectors control panel or remote control.
- To select a submenu, press the ✓ button on your projector's control panel or remote control.
- To select an option, press the ^ or v buttons on your projector's control panel or remote control. When an item is selected, the color changes to dark blue.
- Use the < or > buttons on the control panel or remote control to adjust the settings.
- To go back to Main Menu, go to Back tab and press the ✓ button on the control panel or the remote control.
- To exit the OSD, go to EXIT tab and press the ✓ button or press the **Menu** button directly on the control panel or the remote control.

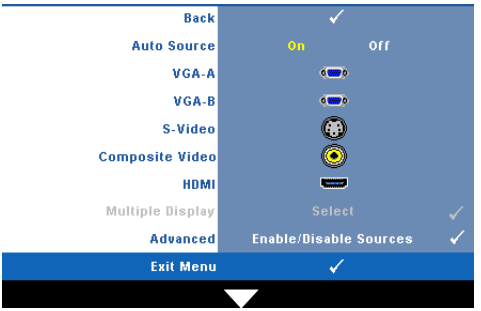
Main Menu

AUTO-ADJUST

Auto Adjust automatically adjusts the projector's **Horizontal**, **Vertical**, **Frequency** and **Tracking** in PC mode. While Auto Adjustment is in progress, the following message appears on the screen:

INPUT SELECT

The Input Select menu allows you to select your projector's input source.



AUTO SOURCE—Select **Off** (the default) to lock the current input signal. If you press the **Source** button when the **Auto Source** mode is set to **Off**, you can manually select the input signal. Select **On** to auto detect the available input signals. If you press the **Source** button when the Auto Source is set to On, it automatically finds the next available input signal.

VGA-A—Press to detect VGA-A signal.

VGA-B—Press to detect VGA-B signal.

S-VIDEO—Press to detect S-Video signal.

COMPOSITE VIDEO—Press to detect Composite Video signal.

HDMI—Press to detect HDMI signal.

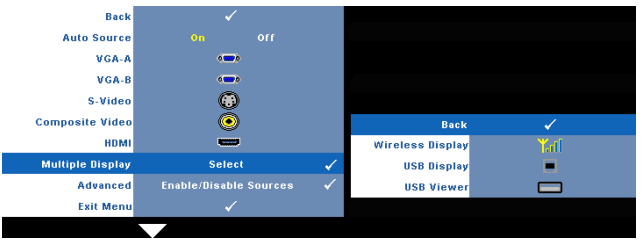
Multiple Display—Press to activate Input Select Multiple Display menu.

NOTE: The Wireless display, USB display, and USB viewer features under Multiple Display can be used after the "Wireless / Network" feature under Set-up in the Main Menu is Enabled. The default setting for the "Wireless / Network" is Disabled.

ADVANCED—Press to activate Input Select Advanced menu.

Input Select Multiple Display

The Input Select Multiple Display menu allows you to activate Wireless Display, USB Display and USB Viewer.



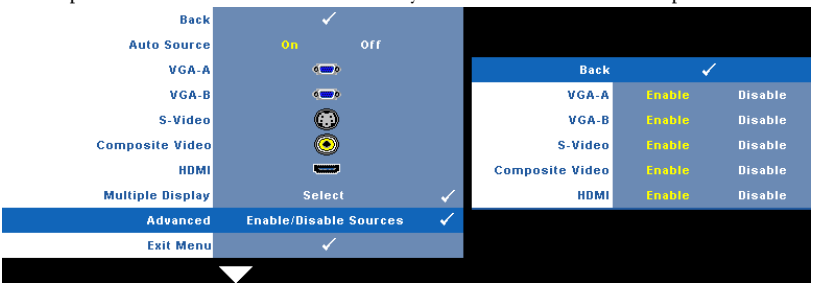
Wireless Display—Press [✓] to access the projector's Wireless Guide screen. See "Wireless Guide screen" on page 69.

USB Display—Allows you to display your PC/NB screen, over a USB cable, on your projector. See "USB Display Driver Installation" on page 76.

USB Viewer—Allows you to display photo and PtG files from your USB flash. See "Presentation to Go (PtG) Installation" on page 77.

INPUT SELECT ADVANCED

The Input Select Advanced menu allows you to enable or disable input sources.



VGA-A—Use [<] and [>] to enable or disable VGA-A input.

VGA-B—Use [<] and [>] to enable or disable VGA-B input.

S-VIDEO—Use [<] and [>] to enable or disable S-Video input.

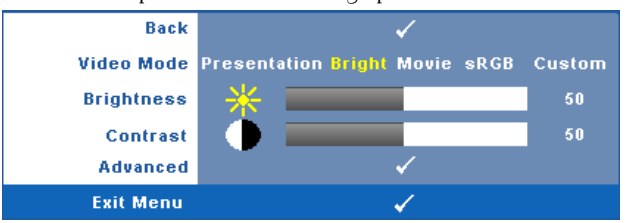
COMPOSITE VIDEO—Use [<] and [>] to enable or disable Composite Video input.

HDMI—Use [<] and [>] to enable or disable HDMI input.

NOTE: You cannot disable your current input source. At anytime, a minimum of two input sources have to be enabled.

PICTURE (in PC Mode)

Using the **Picture** menu, you can adjust the display settings of your projector. The Picture menu provides the following options:



VIDEO MODE—Allows you to optimize the display image: **Presentation**, **Bright**, **Movie**, **sRGB** (provides more accurate color representation), and **Custom** (set your preferred settings).

NOTE: If you adjust the settings for **Brightness**, **Contrast**, **Saturation**, **Sharpness**, **Tint**, and **Advanced** the projector automatically switches to **Custom**.

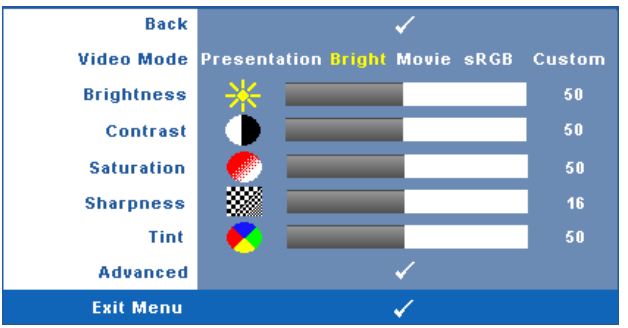
BRIGHTNESS—Use < and > to adjust the brightness of the image.

CONTRAST—Use < and > to adjust the display contrast.

ADVANCED—Press ✓ to activate **Picture Advance** Menu. See "PICTURE ADVANCED" on page 49.

PICTURE (in Video Mode)

Using the **Picture** menu, you can adjust the display settings of your projectors. The Picture menu provides the following options:



VIDEO MODE—Allows you to optimize the display image: **Presentation**, **Bright**, **Movie**, **sRGB** (provides more accurate color representation), and **Custom** (set your preferred settings).

NOTE: If you adjust the settings for **Brightness**, **Contrast**, **Saturation**, **Sharpness**, **Tint**, and **Advanced**, the projector automatically switches to **Custom**.

BRIGHTNESS—Use < and > to adjust the brightness of the image.

CONTRAST—Use < and > to adjust the display contrast.

SATURATION—Allows you to adjust the video source from black and white to fully saturated color. Press < to decrease the amount of color in the image and > to increase the amount of color in the image.

SHARPNESS—Press < to decrease the sharpness and > to increase the sharpness.

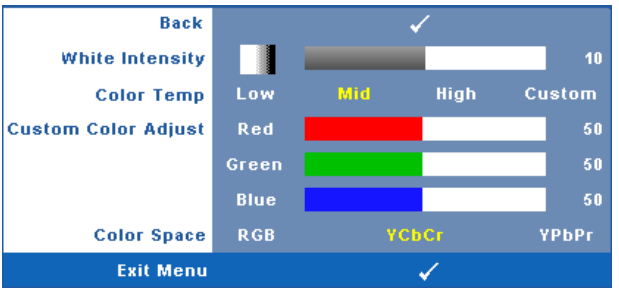
TINT—Press < to increase the amount of green in the image and > to increase the amount of red in the image (available for NTSC only).

ADVANCED—Press ✓ to activate **Picture Advance** Menu. See "PICTURE ADVANCED" below.

NOTE: Saturation, Sharpness, and **Tint** are only available when input source is from Composite or S-Video.

PICTURE ADVANCED

Using the Picture Advanced menu, you can adjust the display settings of your projector. The Picture Advanced menu provides the following options:



WHITE INTENSITY—Use < and > to adjust the display white intensity.

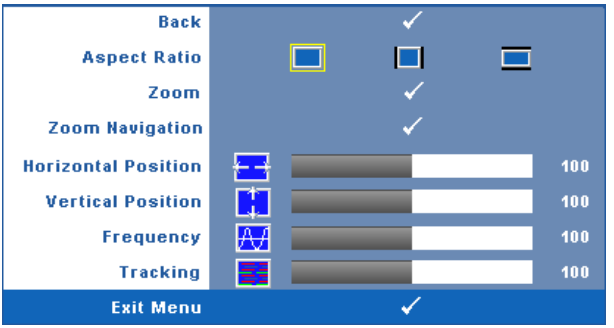
COLOR TEMP—Allows you to adjust the color temperature. The screen appears cooler at higher color temperatures and warmer at lower color temperatures. When you adjust the values in the **Color Adjust** menu, the Custom mode is activated. The values are saved in the Custom mode.

CUSTOM COLOR ADJUST—Allows you to manually adjust the colors red, green, and blue.

COLOR SPACE—Allows you to select the color space, options are: RGB, YCbCr, and YPbPr.

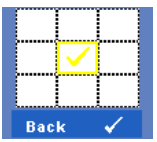
DISPLAY (in PC Mode)

Using the **Display** menu, you can adjust the display settings of your projector. The Picture menu provides the following options:



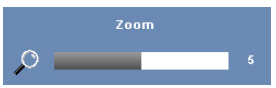
ASPECT RATIO—Allows you to select the aspect ratio to adjust how the image appears.

- Original — Select Original to maintain the aspect ratio of image projected according to input source.
- 4:3 — The input source scales to fit the screen and projects a 4:3 image.
- Wide — The input source scales to fit the width of the screen to project a wide screen image.



ZOOM—Press to activate **Zoom** menu.

Select the area to zoom and press to view zoomed image.



Adjust the image scale by pressing or and press to view.

ZOOM NAVIGATION—Press to activate **Zoom Navigation** menu.

Use to navigate projection screen.

HORIZONTAL POSITION—Press to move the image to the left and to move the image to the right.

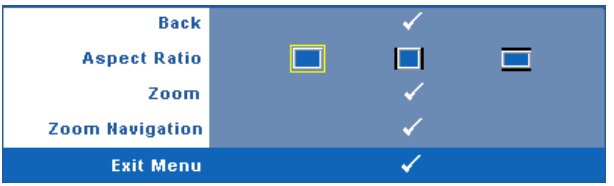
VERTICAL POSITION—Press to move the image down and to move the image up.

FREQUENCY—Allows you to change the display data clock frequency to match the frequency of your computer graphics card. If you see a vertical flickering wave, use **Frequency** control to minimize the bars. This is a coarse adjustment.

TRACKING—Synchronize the phase of the display signal with the graphic card. If you experience an unstable or flickering image, use **Tracking** to correct it. This is a fine adjustment.

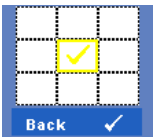
DISPLAY (in Video Mode)

Using the **Display** menu, you can adjust the display settings of your projector. The Picture menu provides the following options:

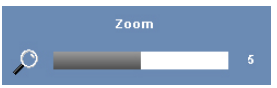


ASPECT RATIO—Allows you to select the aspect ratio to adjust how the image appears.

- Original — Select Original to maintain the aspect ratio of image projected according to input source.
- 4:3 — The input source scales to fit the screen and projects a 4:3 image.
- Wide — The input source scales to fit the width of the screen to project a wide screen image.



ZOOM—Press to activate **Zoom** menu.
Select the area to zoom and press to view zoomed image.



Adjust the image scale by pressing or and press to view.

ZOOM NAVIGATION—Press to activate **Zoom Navigation** menu.
Use to navigate projection screen.

LAMP

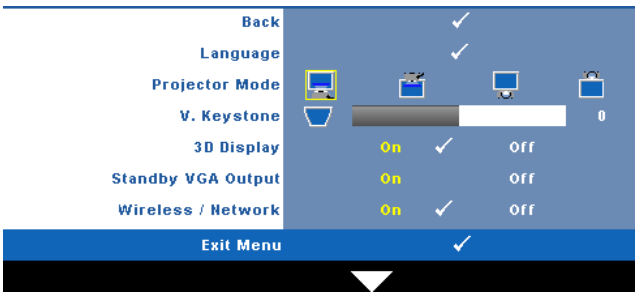
The Lamp menu provides the following options:

LAMP HOUR—Displays the operating hours since the last lamp timer reset.

LAMP HOUR RESET—Select **Yes** to reset the lamp timer.

SET UP

The Set Up menu allows you to adjust settings for Language, Projector Mode, V. Keystone, 3D Display, Standby VGA Output and Wireless / Network.



LANGUAGE—Allows you to set the language for the OSD. Press ✓ to activate the **Language** menu.

PROJECTOR MODE—Allows you to select the projector mode, depending upon how the projector is mounted.

- Front Projection-Desktop — This is the default option.
- Front Projection-Wall Mount — The projector turns the image upside down for wall-mounted projection.
- Rear Projection-Desktop — The projector reverses the image so that you can project from behind a translucent screen.
- Rear Projection-Wall Mount — The projector reverses and turns the image upside down. You can project from behind a translucent screen with a wall-mounted projection.

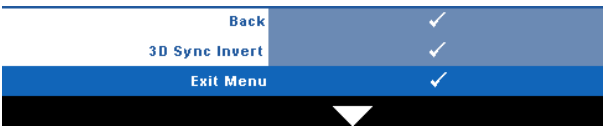
NOTE: Enabling the Interactive function is NOT recommended in the rear projector modes.

V. KEYSTONE—Manually adjust the vertical image distortion caused by tilting the projector.

3D DISPLAY—Select on to start the 3D display function. Default is off.

NOTE:

1. When you want to create 3D experience, you will need a few other components including:
   a PC/NB with a 120 Hz signal output quad buffered graphics card.
   b "Active" 3D glasses with DLP Link™.
   c 3D content. See "Note 4".
   d 3D Player. (Example: Stereoscopic Player...)
2. Enable the 3D function when it satisfies any of the below-mentioned conditions:
   a PC/NB with graphics card, capable of outputting at 120Hz signal via VGA or HDMI cable.
   b inputs a suite of 3D content via Video and S-Video.
3. When projector detects either of the inputs (mentioned above), the enable 3D display on "SETUP" -> "3D Display" OSD works.
4. Current 3D support time is as indicated:
   a VGA/HDMI 1280 x 720 120 Hz
   b Composite/S-Video 60 Hz
   c Component 480i
5. The recommended VGA signal for NB is Single mode output (Dual mode is not recommended)



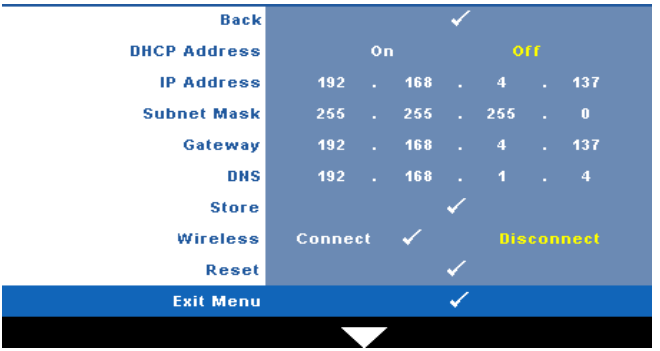
3D Sync Invert—If you see a discrete or overlapping image while wearing DLP 3D goggles, you may need to execute 'Invert' to get best match of left/right image sequence to get the correct image. (For DLP 3D goggles)

STANDBY VGA OUTPUT—Select On or Off the VGA output function at projector standby status. Default is Off.

WIRELESS / NETWORK—Select **On** to activate wireless / network function. Press ☑ to configure the **Wireless / Network** settings.

WIRELESS / NETWORK

The Wireless / Network menu allows you to configure the network connection settings.



DHCP ADDRESS—If a DHCP server exists in the network to which the projector is connected, the IP address will automatically be acquired when you select DHCP **On**. If DHCP is **Off**, manually set the IP Address, Subnet Mask, and Gateway. Use [^] [v] to select the number of IP Address, Subnet Mask, and Gateway. Key in Enter to confirm each number and then use [<] [>] to set the next item.

IP ADDRESS—Automatically or manually assigns the IP address to the projector connected to the network.

SUBNET MASK—Configure the Subnet Mask of the network connection.

GATEWAY—Check the Gateway address with your network/system administrator if you configure it manually.

DNS—Check the DNS Server IP address with your network/system administrator if you configure it manually.

STORE—Press [✓] to save the changes made in network configuration settings.

NOTE:

1. Use [^] and [v] button to select IP Address, Subnet Mask, Gateway, DNS and Store.
2. Press the [✓] button to enter IP Address, Subnet Mask, Gateway or DNS to set the value. (The selected option is highlighted in yellow)
   - **a** Use [<] and [>] button to select the option.
   - **b** Use [^] and [v] button to set the value.
   - **c** After the setup is complete, press the [✓] button to exit.

3 After the IP Address, Subnet Mask, Gateway and DNS is set up, select **Store** and press the ☑ button to store the settings.

4 If you select exit without storing the settings, the system will retain the previous settings.

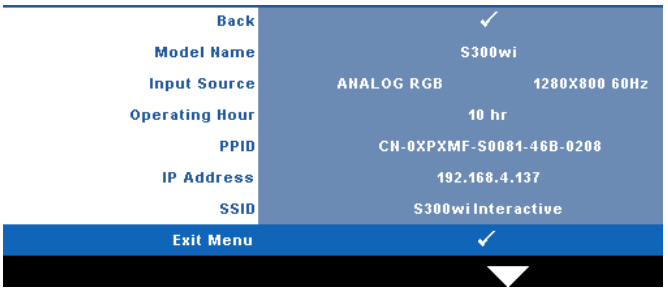
WIRELESS—Default is **Connect**. Select **Disconnect** to disable the wireless connection to use LAN networking only.

NOTE: It is recommended to use the default settings for Wireless Connect.

RESET—Press ☑ to reset network configuration.

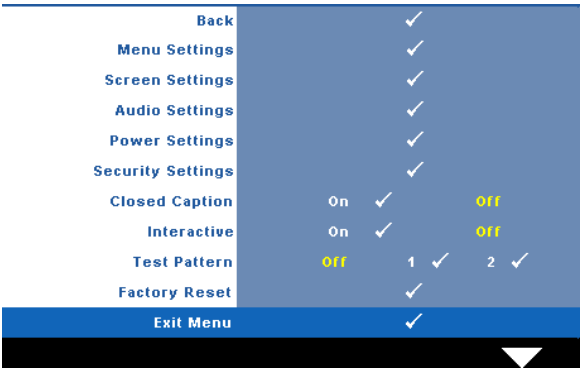
INFORMATION

The Information menu displays the current projector settings.

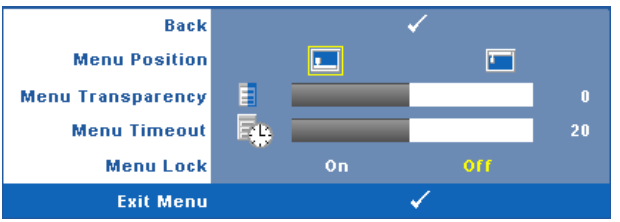


OTHERS

The Others menu allows you to change settings for Menu, Screen, Audio, Power, Security, Closed Caption (for NTSC only), and Interactive. You can also perform Test Pattern and Factory Reset.



MENU SETTINGS—Select and press to activate menu settings. The menu settings consists of the following options:



MENU POSITION—Allows you to change the position of the OSD menu on the screen.

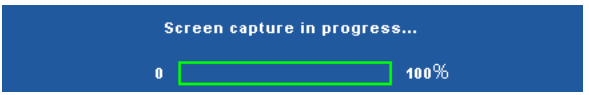
MENU TRANSPARENCY—Select to change the transparency level of the OSD background.

MENU TIMEOUT—Allows you to adjust the time for an OSD timeout. By default, the OSD disappears after 20 seconds of non-activity.

MENU LOCK—Select **On** to enable Menu Lock and hide the OSD menu. Select **OFF** to disable the Menu Lock. If you want to disable the Menu Lock function and have the OSD disappear, press the **Menu** button on the control panel or remote control for 15 seconds, then disable the function.

SCREEN SETTINGS—Select and press ☑ to activate screen settings. The screen settings menu consists of the following options:

CAPTURE SCREEN—Select and press ☑ to capture the screen display, the following message appears on the screen.



NOTE: To capture a full image, ensure the input signal that is connected to the projector is 1280 x 800 resolution.

SCREEN—Select **Dell** to use the Dell logo as wallpaper. Select **Captured** to set the captured image as wallpaper.

RESET—Select and press ☑ to delete the captured picture and set back to the default setting.

AUDIO SETTINGS—Select and press ☑ to change audio settings. The audio settings menu consists of the following options:

AUDIO INPUT—Select the Audio input source, options are: Audio-A, Audio-B, HDMI and Microphone.

VOLUME—Press ◁ to decrease the volume and ▷ to increase the volume.

SPEAKER—Select **On** to enable speaker. Select **Off** to disable speaker.

MUTE—Allows you to mute the sounds for audio input and audio output.

POWER SETTINGS—Select and press ☑ to activate power settings. The power settings menu consists of the following options:

POWER SAVING—Select **Off** to disable Power Saving mode. By default, the projector is set to enter power saving mode after 120 minutes of no activity. A warning message appears on screen showing a 60-second countdown before switching to power saving mode. Press any key buttons during countdown period to stop power saving mode.

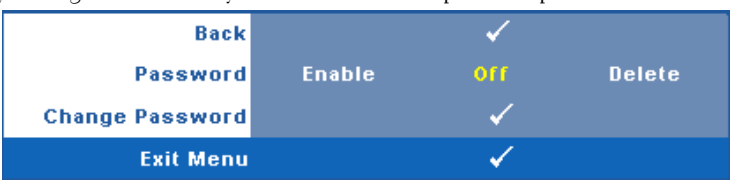
You can also set a different delay period to enter power saving mode. The delay period is the time you want the projector to wait without an input signal. Power saving can be set to 30, 60, 90, or 120 minutes.

If an input signal is not detected during the delay period, the projector turns off the lamp and goes into power saving mode. If an input signal is detected within the delay period, the projector automatically turns on. If an input signal is not detected within two hours during power saving mode, the projector switches from Power Saving mode to Power Off mode. To turn on the projector press the Power button.

QUICK SHUTDOWN—Select **Yes** to turn off the projector with a single press of the **Power** button. This function allows the projector to quick power off with an accelerated fan speed. Slightly higher acoustic noise is expected during quick power off.

NOTE: Before you turn on the projector again, wait for 60 seconds to allow the internal temperature to stabilize. The projector will take a longer time to turn on if you try to power on immediately. Its cooling fan will run at full speed for about 30 seconds to stabilize the internal temperature.

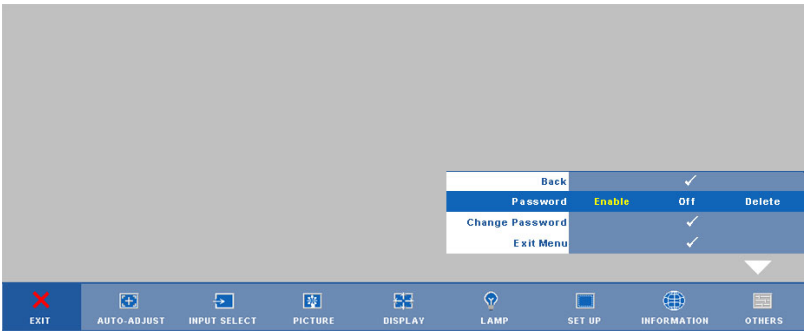
SECURITY SETTINGS—Select and press ☑ to activate security settings. The security settings menu allows you to enable and set password protection.



PASSWORD—When Password Protect is enabled, a Password Protect screen requesting you to enter a password will be displayed when the power plug is inserted into the electrical outlet and the power for the projector is first turned on. By default, this function is disabled. You can enable this feature, by selecting **Enabled**. If the password has been set before, key in the password first and select the function. This password security feature will be activated the next time you turn on the projector. If you enable this feature, you will be asked to enter the projector's password after you turn on the projector:

1 First time password input request:

a Go to **Others** menu, press ☑ and then select **Password** to **Enable** the password setting.



b Enabling the Password function will pop up a character screen, key in a 4-digit number from the screen and press ☑.

c To confirm, enter the password again.

d If the password verification is successful, you may resume with accessing the projector's functions and its utilities.

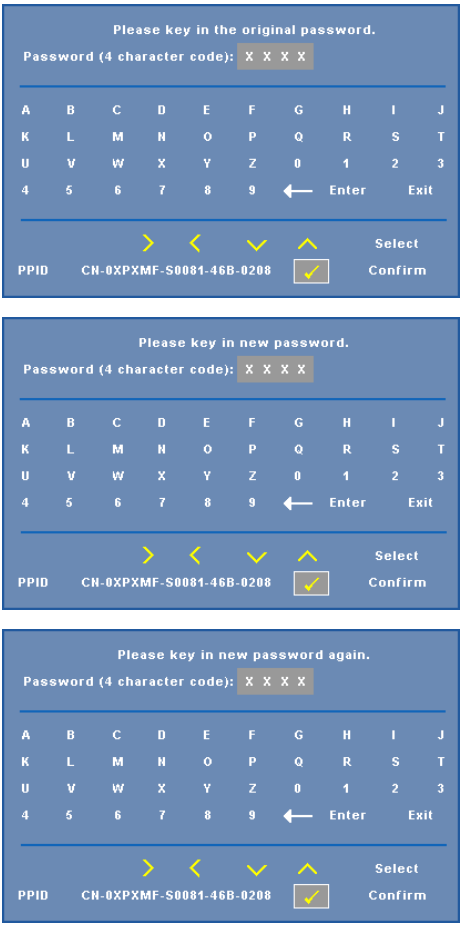
2 If you have entered an incorrect password, you will be given another 2 chances. After the three invalid attempts, the projector will automatically turn off.

NOTE: If you forget your password, contact DELL™ or a qualified service personnel.

3 To disable the password function, select **Off** to disable the function.

4 To delete the password, select **Delete**.

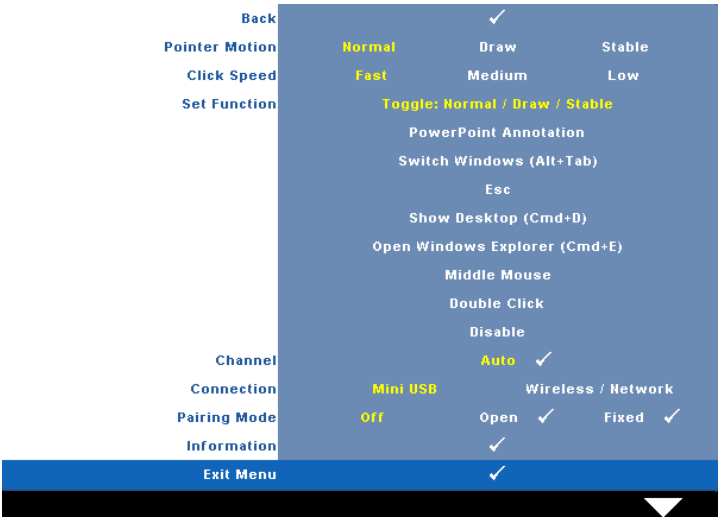
CHANGE PASSWORD—Key in the original password, then enter the new password and confirm the new password again.



CLOSED CAPTION—Select **On** to enable close caption and activate the closed caption menu. Select an appropriate closed captions option: CC1, CC2, CC3, and CC4.

NOTE: Closed caption option is available for NTSC only.

INTERACTIVE—Select **On** to enable Interactive and activate the Interactive menu. The Interactive menu consists of the following options:



NOTE:

1. Ensure that the interactive pen is connected. See "Connecting with your Interactive Pen" on page 26.
2. Interactive Pen cannot be used in the following circumstances:
   a In extend mode.
   b When the 3D display function is enabled, and there is a 120Hz input source connected to the projector.

POINTER MOTION—Allow you to select the Pointer Motion mode: Normal, Draw, and Stable.

NOTE:

1. Connect the projector to your computer using a mini USB-B or LAN cable or through wireless connection.
2. Interactivity is supported only in the following input modes: VGA and HDMI from a PC, and Wireless Display, USB Display, and LAN Display

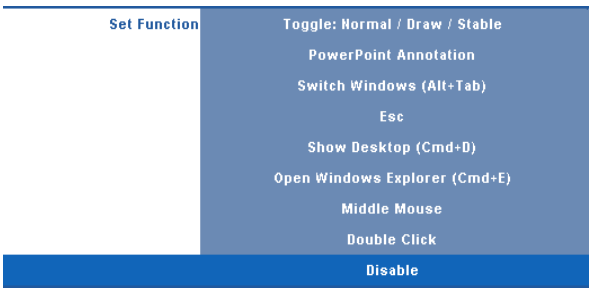
- **Normal** — In Normal mode, press Left button of the interactive pen can hold the position of the pointer for a moment. This mode is best to use the Interactive Pen like a mouse, i.e., for left click and double click functions.

- **Draw —** In Draw mode, the pointer can move freely for drawing. This mode is best for drawing or writing on the screen.
- **Stable —** In Stable mode, press and hold the Left button of the interactive pen to limit the pointer to vertical or horizontal moves. If the left button is released, the pointer can resume to move freely. This mode is best for drawing vertical or horizontal lines on the screen.

CLICK SPEED—Allow you to set the mouse pause time. This function is only available in Normal mode. The available options are: Fast, Medium and Low.

- **Fast —** Set the pointer motion freeze time to the minimum amount of time, 0.5 seconds.
- **Medium —** Set the pointer motion freeze time to the middle value, 1.0 second.
- **Low —** Set the pointer motion freeze time to the maximum amount of time, 1.5 seconds.

SET FUNCTION—Allow you to set the function of the Function button on the interactive pen. Available options are: **Toggle: Normal/Draw/Stable**, **PowerPoint Annotation**, **Switch Windows (Alt+Tab)**, **Esc**, **Show Desktop (Cmd+D)**, **Open Windows Explorer (Cmd+E)**, **Middle Mouse**, **Double Click** and **Disable** (see "Using the Interactive Pen" on page 38).



- **Toggle: Normal / Draw/Stable —** Function as toggling among **Normal**, **Draw**, and **Stable** mode.
- **PowerPoint Annotation —** Function as annotating in the PowerPoint slide show.
- **Switch Windows (Alt+Tab) —** Function as toggling among windows, acting as the keyboard shortcut Alt+Tab.
- **Esc —** Function as the keyboard Esc button.
- **Show Desktop (Cmd+D) —** Function as showing desktop, minimizing all windows.

- **Open Windows Explorer (Cmd+E) —** Set the function as opening the Windows Explorer.
- **Middle Mouse —** Set the function as the scroll wheel of the mouse.
- **Double Click —** Set the function as double-clicking.
- **Disable —** Disable the Function button.

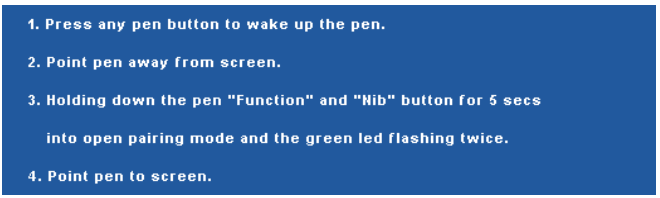
CHANNEL—Allow you to set the channel selection as **Auto** or **Manual**.

- **Auto —** Channel is selected automatically.
- **Manual —** Channel is selected manually. A total of 15 channels are available.

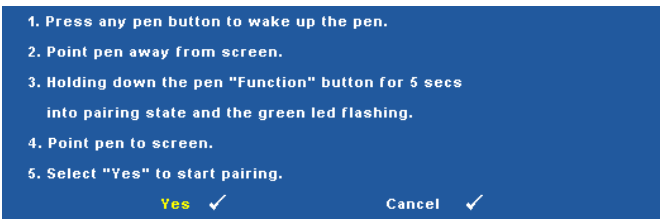
CONNECTION—Allow you to set the connector selection as Mini USB or Wireless / Network.

PAIRING MODE—Allow you to set the pairing mode selection as Open or Fixed.

- **Open Mode —** When you select Open, just follow the on-screen step to set your Interactive Pen into open mode. (This mode can let your interactive pen used in any the projector when the pen points to the screen.)

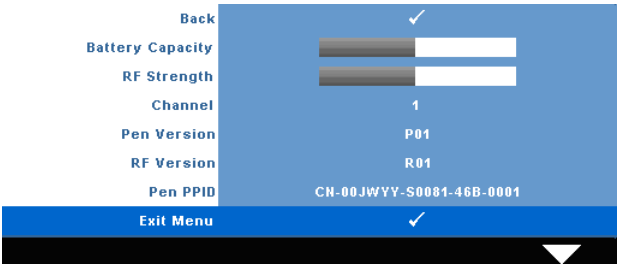


- **Fixed Mode —** When you select Fixed, just follow the on-screen step to complete the pairing between Projector and Interactive Pen. (This mode is to make sure your interactive pen pairing with your designated projector.)



Once paired, the pen will automatically fix to the projector every time it turns on.

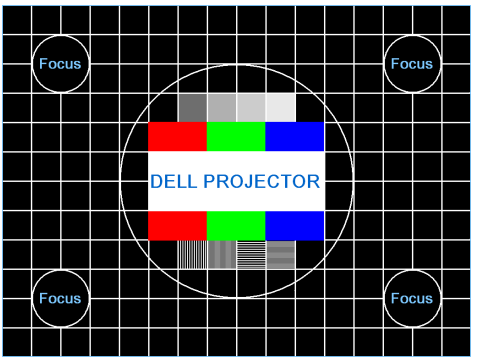
INFORMATION—Allow you to view the information about the interactive pen.



TEST PATTERN—Test Pattern is used to test focus and resolution.

You can enable or disable the **Test Pattern** by selecting **Off**, **1** or **2**. You can also invoke the **Test Pattern 1** by pressing and holding down [≡] and [>] buttons on the control panel simultaneously for 2 seconds. You can also invoke the test pattern 2 by pressing and holding down [≡] and [<] buttons on the control panel simultaneously for 2 seconds.

Test Pattern 1:



Test Pattern 2:

FACTORY RESET—Select and press [✓] to reset all settings to its factory default, the warning message below appears.

Reset items include both computer sources and Video source settings.

Wireless Networking Installation

NOTE: Your computer must have the following minimum system requirements:

Operating System:

- Windows

  Microsoft Windows 2000 with service pack 4 or later, Windows XP Home or Professional Service pack 2 32-bit(recommended), Windows Vista 32-bit, and Windows 7 Home or Professional 32-bit or 64-bit

- MAC

  MacBook and above, MacOS 10.5 and above

Minimum Hardware:

a Intel Pentium III-800 MHZ (or greater)

b 256MB of RAM required, 512 MB or more recommended.

c 10MB of available hard-disk space

d Super VGA supporting 800 x 600 16 bit high color or higher-resolution display recommended (PC and display)

e Ethernet adapter (10 / 100 bps) for an Ethernet connection

f A supported WLAN adapter for a WLAN connection (any NDIS-compliant 802.11b or 802.11g Wi-Fi device)

Web browser

Microsoft Internet Explorer 6.0 or 7.0 (recommended) or 8.0, Firefox 1.5 or 2.0, and Safari 3.0 and above

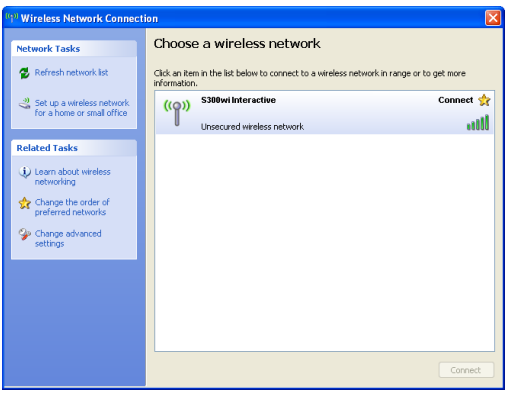
In order to use your projector wirelessly, you need to complete the steps below:

1. Install the wireless antenna. See "Installing the Antenna" on page 13.
2. Enable wireless connection on the projector. See "WIRELESS / NETWORK" on page 56.

NOTE: When you start wireless, please wait about 50 seconds reboot the Wireless / Network.

3. On INPUT SELECT menu, select Multiple Display and then select Wireless display on sub-menu. See "INPUT SELECT" on page 46. The **Wireless Guide Screen** shown below appears.

4. Take note of the **LOGIN CODE**, **NETWORK NAME (SSID)**, and **IP ADDRESS**. You will need these information to login later.
5. Connect your computer to the **S300wi** network.



NOTE:

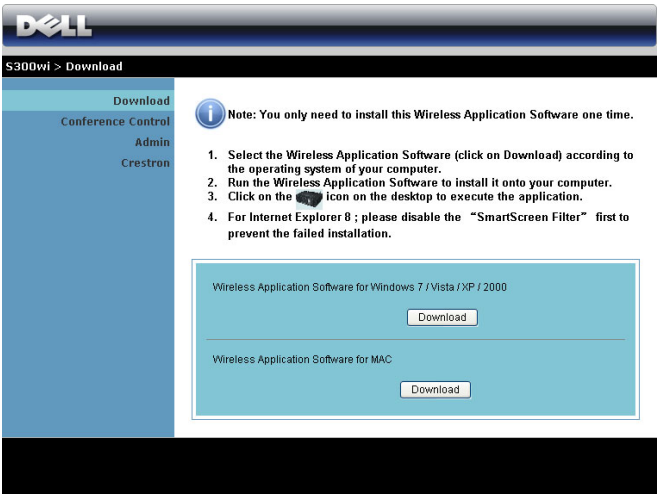
- Your computer must have wireless network function to detect the connection.
- When you connect to the **S300wi** network, you will lose wireless connectivity with other wireless networks.

6 Open your internet browser. You will be automatically directed to the **S300wi Web Management** web page.

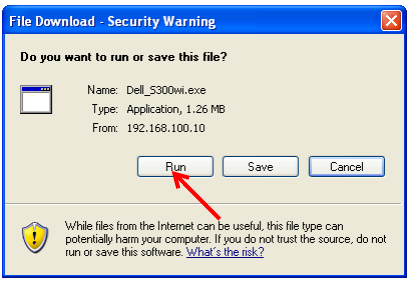
NOTE: If the web page does not load automatically, enter the IP address noted from the projector's screen in the browser's address bar.

7 The S300wi Web Management page opens. For first time use, click **Download**.

8 Select the appropriate operating system, then click **Download**.

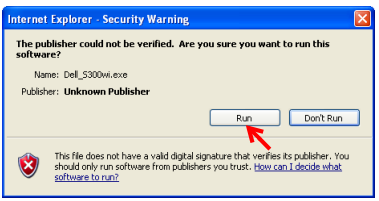


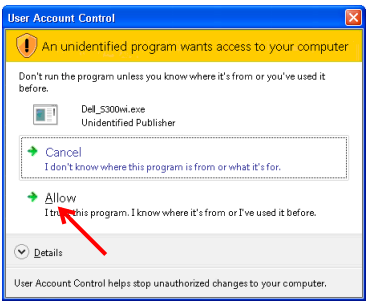
9 Click **Run** to proceed with the one-time installation of the software.



NOTE: You may choose to save the file and install it at latter time. To do this, click **Save**.

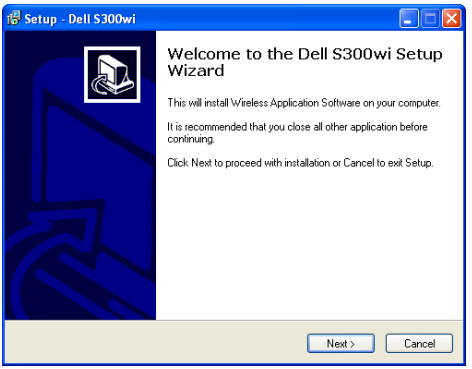
NOTE: The following warning messages may appear, select **Run** and **Allow** respectively.





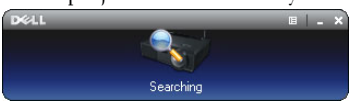
NOTE: If you are unable to install application because of inadequate rights on the computer, please contact your network administrator.

10 The installation software will launch. Follow the on-screen instructions to complete setup.



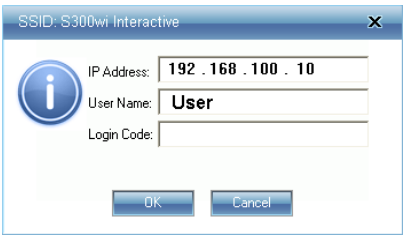
S300wi Wireless Application Software

Once the installation is complete, S300wi Wireless Application software will launch and will search for the projector automatically. The screen below appears.



Login

To communicate with your projector, enter the Login Code provided for in Step 4 of "Wireless Networking Installation, then click **OK**.



NOTE: If **IP Address** is not detected, enter the **IP Address** displayed at the bottom left corner of the screen.

Understanding the Buttons

After a successful login, the following menu bar appears on the computer screen.

	Item	Description
1	Status Bar	Displays IP and LOGIN CODE information.
	Menu	Click to activate the application menu.
	Minimize button	Click to minimize the application.
	Close button	Click to exit the application.
2	Controls Toolbar	
	Full screen	Click to project the image in full screen.
	Split 1	Click to project the image in the upper left corner of the screen.
	Split 2	Click to project the image in the upper right corner of the screen.
	Split 3	Click to project the image in the lower left corner of the screen.
	Split 4	Click to project the image in the lower right corner of the screen.
	Stop	Click to stop projection.
	Pause	Click to pause projection.
	Refresh	Click to refresh projected image.
3	Connection Status	
	Connection Icon	Blinks when projection is in progress.

Projecting the Presentation

- To project the presenation, click any of the projection buttons .
- To pause the presentation, click . The icon turns green.

- To continue the presentation, click again.
- To stop the presentation, click .

NOTE: The following information is for wireless data presentation mode only. Image display could be slow or not displayed smoothly if displaying a video clip or animation, refer to the frame rate table below for reference.

Frame Rate of Wireless Presentation

Screen Variation % [1]	Estimated frame per second [2]
<5 %	30[3]
<10%	16[3]
<20%	12[3]
<40%	8[3]
<75%	5[3]
100%	3[3]
> 100%	≤ 2[4]

NOTE:

1 The percentage of screen variation is based on 1024 x 768. Example, display a 320 x 240 video clip on 1024 x 768 desktop, the screen variation is 9.8%.

2 Actuate frame rate could be different depending on factors, such as network environment, image content, signal conditions, locations, and CPU performance.

3 Under clean WLAN environment using 802.11g connection, and no screen stretching.

4 Compressed to 1024 x 768 and under 802.11g.

NOTE: Your computer will not enter S1 (standby mode) / S3 (sleep mode) / S4 (hibernate mode) when running a wireless, USB Display and USB Viewer presentation.

Using the Menu

Click to display the menu.

WEB MANAGEMENT—Click to open the Web Management page. See "Managing the Projector From Web Management" on page 83.

SEARCH FOR PROJECTOR—Click to search and connect to wireless projector..

MAKE APPLICATION TOKEN—Click to make application token. See "Make Application Token" on page 102.

INFO—Click to display system information.

ABOUT—Click to display the application version.

EXIT—Click to close the application.

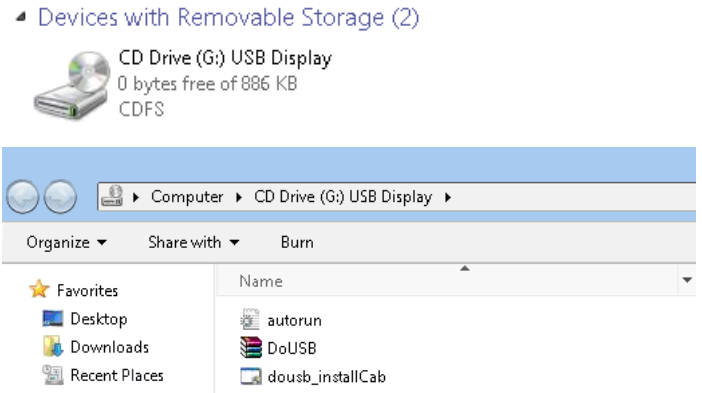
USB Display Driver Installation

In order to use your USB Display, you need to complete the steps below:

1. Enable Wireless / Network connection on the projector. See "WIRELESS / NETWORK" on page 56.

NOTE: When you start wireless, please wait about 50 seconds to reboot the Wireless / Network.

2. Connecting the USB cable to your projector and computer. See "Connecting a Computer Using an USB Display" on page 17.
3. On INPUT SELECT menu, select Multiple Display and then select USB Display on sub-menu. See "Input Select Multiple Display" on page 46.
4. The first time a user uses this mode, the projector automatically prompts for the following drivers to be installed. Start the installation manually by clicking "dousb_install.Cab" on CD Drive.



NOTE: If pop up "AutoPlay" installation window, please close it.

5. System will start to install the Remote NDIS driver on your computer at first time.

NOTE:

- If the warning message appears, please ignore and allow for installation.
- You may require administrator level access to install the software.

6. Start to display the computer screen through USB cable.

NOTE: When the computer resumes from standby or hibernation mode, the display over USB can also be resumed automatically. If it fails to resume automatically, you have to unplug and plug the USB cable again.

Presentation to Go (PtG) Installation

Minimum system requirements to install PtG are as follow:

Operating System:

- Windows

Microsoft Windows XP Home or Professional Service pack 2/3 32-bit (recommended), Windows Vista 32-bit, and Windows 7 Home or Professional 32-bit or 64-bit

- Office 2003 and Office 2007

In order to use your USB Viewer, you need to complete the steps below:

1. Enable Wireless / Network connection on the projector. See "WIRELESS / NETWORK" on page 56.

NOTE: When you start wireless, please wait about 50 seconds to reboot the Wireless / Network.

2. Plug the USB Flash to your projector.

NOTE:

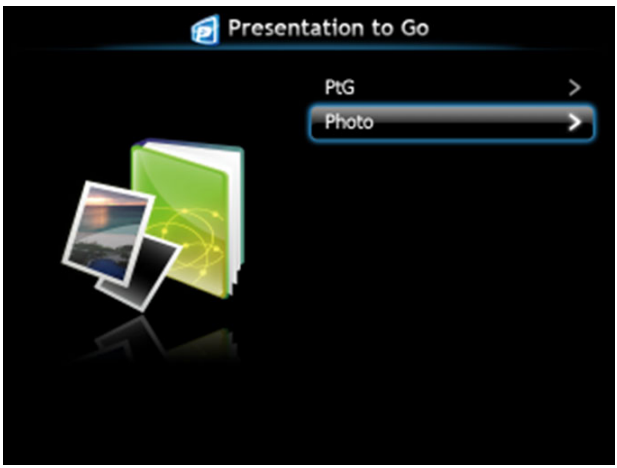
- Only support the JPEG format photo within 10Mb 40M pixels.
- The PtG converter can convert your PowerPoint files into PtG files. See "PtG Converter - Lite Application Software" on page 81
- You can download the "PtG Converter - Lite" from Dell Support site at: support.dell.com.

3. On INPUT SELECT menu, select Multiple Display and then select USB Viewer on sub-menu. See "Input Select Multiple Display" on page 46. The **Presentation to Go Screen** appears.

PtG Viewer

System will stay in this page when ready.

Photo Viewer



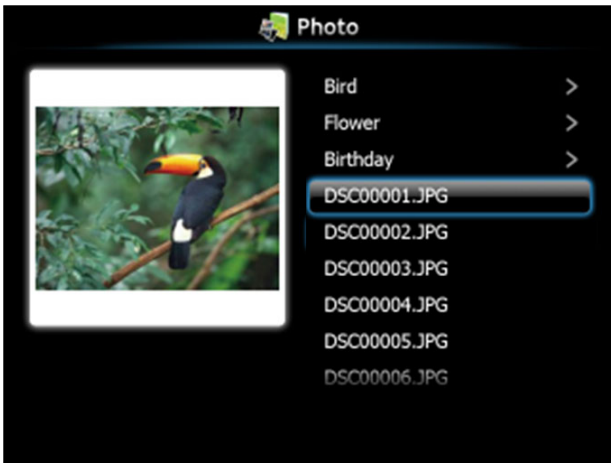
PtG/Photo Function Introduction

Show valid PtG and Photo files which are stored in USB disk.

NOTE: If only one disk is detected, system will skip this step.

PtG Overview

Photo Overview



NOTE: Support 14 languages of photo files name format (Language: English, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish and Traditional Chinese).

Buttons Introduction

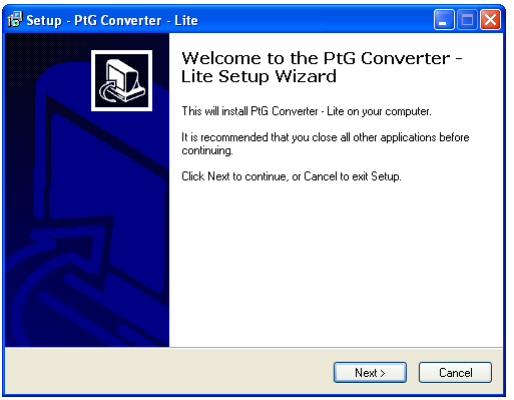
Use up, down and left buttons to navigate and button on your projector's control panel or remote control to select.

Button	Up	Down	Left	Right	Enter
PtG function	Up	Down	Back	No function	Enter
PtG Playback	Pre Page	Next Page	Back	No function	Next Pause
Photo function	Up	Down	Back	No function	Enter
Photo Playback	Pre Page	Next Page	Back	No function	No function

NOTE: If you enter OSD menu while using PtG, PtG navigation by up, down and left buttons will not function.

Setup PtG Converter - Lite

Please follow the on-screen instructions to complete setup.

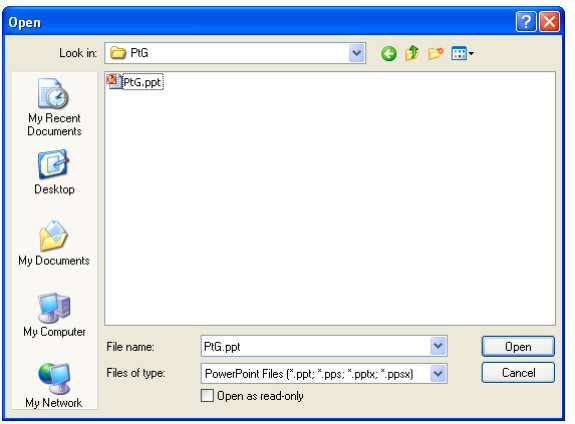


PtG Converter - Lite Application Software

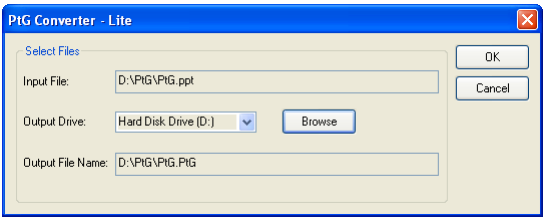
Please launch the "PtG Converter - Lite". The screen below appears.

1 Click to start conversion.

2 Select the PowerPoint file you want to convert.



3 Click Browse button to select storage location and then press OK.



NOTE:

1 If your computer does not have MS PowerPoint installed, file convert will fail.

2 PtG converter only supports up to 20 pages.

3 PtG converter only support conversion of .ppt files to .PtG files.

Managing the Projector From Web Management

Configuring the Network Setting

If the projector is connected to a network, you can access the projector using a web browser. For configuring the network setting, refer to "WIRELESS / NETWORK" on page 56.

Accessing Web Management

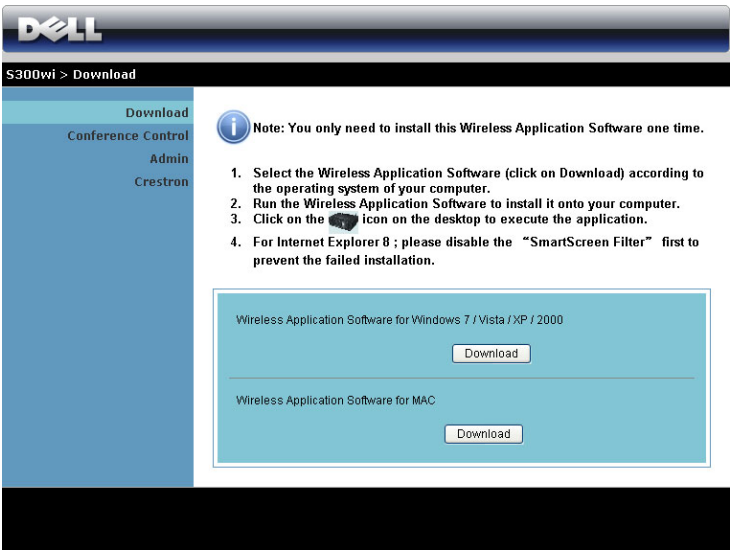
Use Internet Explorer 5.0 and above or Firefox 1.5 and above and enter the IP address. You can now access Web Management and manage the projector from a remote location.

Home Page

- Access the Web Management Home page by entering the projector's IP address at the web browser. See "WIRELESS / NETWORK" on page 56.
- Select the language for web management from the list.
- Click any menu item on the left tab to access the page.

Download the Wireless Application Software

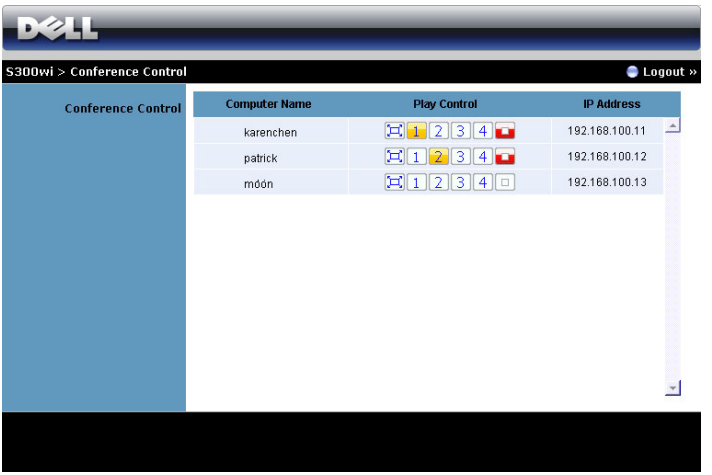
See also "Wireless Networking Installation" on page 68.



Click the **Download** button of the corresponding operating system of your computer.

Conference Control

This allows you to host conference presentations from different sources without using projector cables and lets you control how each presentation will appear on screen.



NOTE: Without Conference Play Control, the last user to hit the "Play" button on the application will take control of the full screen projection.

Computer Name: Lists the computers logged for conference control.

Play Control: Click the buttons to control how each computer's projection will appear on screen.

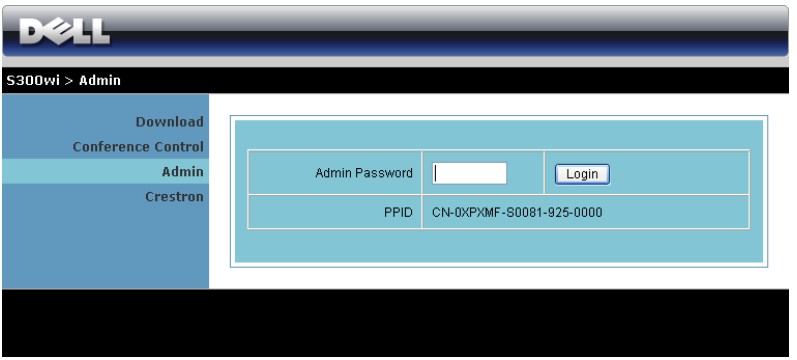
- Full screen projection — The presentation from the computer occupies the whole screen.
- 1 Split 1 - The presenation from the computer appears on the upper left corner of the screen.
- 2 Split 2- The presenation from the computer appears on the upper right corner of the screen.
- 3 Split 3- The presenation from the computer appears on the lower left corner of the screen.
- 4 Split 4- The presenation from the computer appears on the lower right corner of the screen.
- Stop - Projection from the computer is stopped.

IP Address: Shows each computer's IP Address.

NOTE: To end the conference, click **Logout**.

Managing Properties

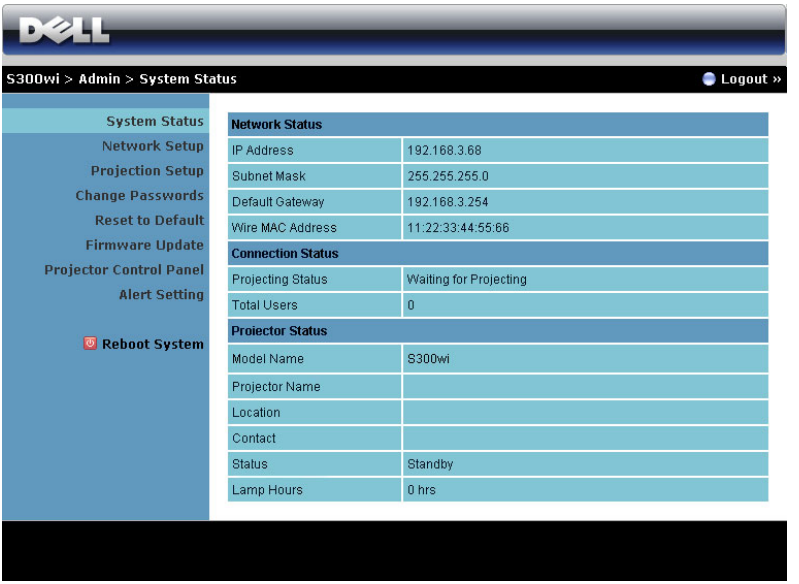
Admin



An administrator password is required to access the Admin page.

- **Admin Password**: Enter the administrator password then click **Login**. The default password is "admin". To change the password, see "Change Passwords" on page 91.

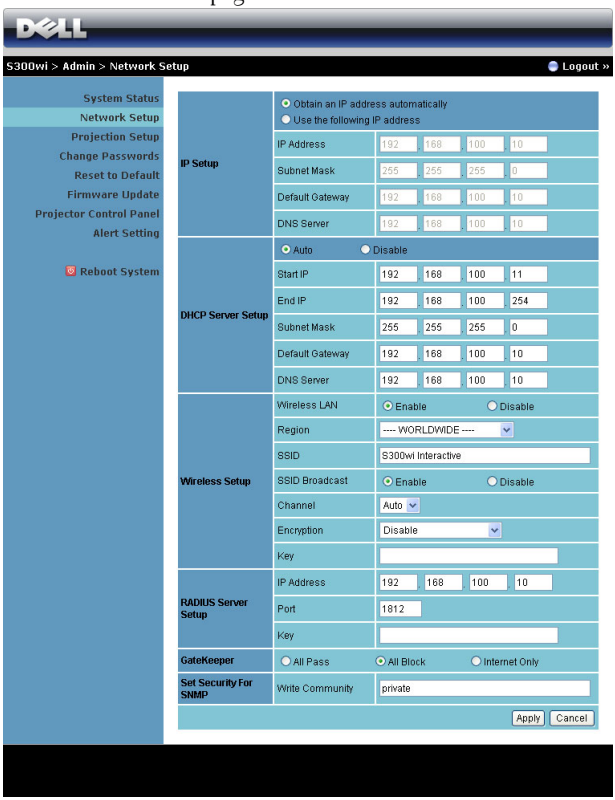
System Status



Displays the **Network Status**, **Connection Status**, and **Projector Status** information.

Network Status

See OSD section on page 56.



IP Setup

- Choose **Obtain an IP address automatically to assign an IP address to the projector automatically**, or **Use the following IP address** to assign an IP address manually.

DHCP Server Setup

- Choose **Auto** to automatically setup the **Start IP**, **End IP**, **Subnet Mask**, **Default Gateway**, and **DNS Server** address from a DHCP server, or **Disable** to disable this function.

Wireless Setup

- Choose **Enable** to setup the **Region**, **SSID**, **SSID Broadcast**, **Channel**, **Encryption**, and **Key**. Choose **Disable** to disable wireless setup.

SSID: Up to maximum length of 32 characters.

Encryption: You can Disable WPA key or select one of 64-bit or 128-bit in ASCII or HEX string.

Key: If Encryption is enabled, you have to set key value according to Encryption mode you selected.

RADIUS Server Setup

- Setup the IP address, Port and Key information.

GateKeeper

- There are 3 options:

  All Pass: Allow users to access office network via wireless projector.

  All Block: Block users to access all office network via wireless projector.

  Internet Only: Block users from office network but still reserve Internet connection capability.

Set Security For SNMP

- Setup Write Community information.

Click the **Apply** button to save and apply changes. The projector must be restarted for the changes to take effect.

Projection Setup

Projection Setup

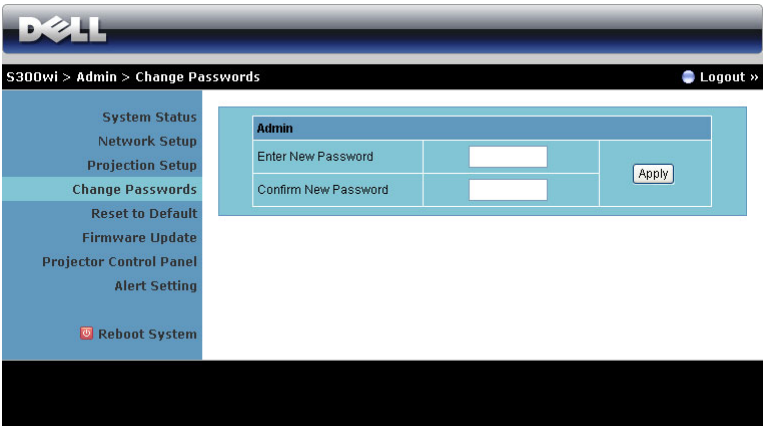
- **Resolution**: Allows you to select the resolution. Options are: XGA (1024 x 768) and WXGA (1280 x 800).
- **Color Depth**: Allows you to select the color depth for more vivid presentations. Options are: Normal (16 bit) and High (32 bit).
- **Login Code**: Select how you want the login code to be generated by the projector. There are 3 options:
  - **Disable**: Login code will not be required when logging in to the system.
  - **Random**: Default is **Random**. Login code will be randomly generated.
  - **Use the following code**: Enter a 4-digit code. This code will be used to login to the system.

Projector Setup

- Setup the **Model Name**, **Projector Name**, **Location**, and **Contact** information (up to 21 characters for each field).

Click the **Apply** button to save and apply changes. The projector must be restarted for the changes to take effect.

Change Passwords

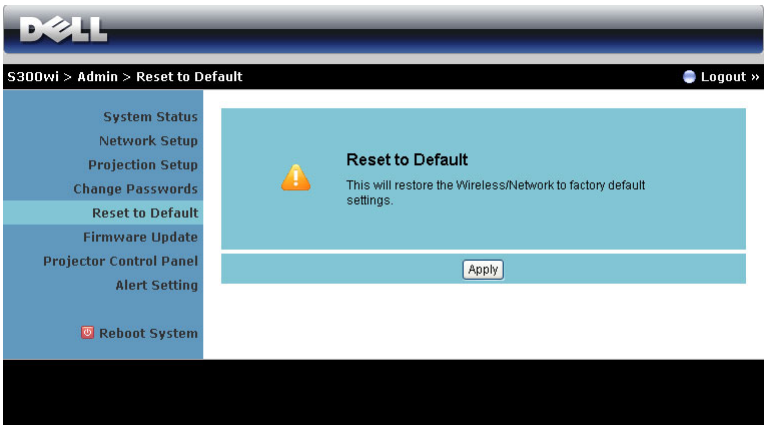


This page allows you to change the administrator password.

- **Enter New Password**: Enter the new password.
- **Confirm New Password**: Enter the password again and click **Apply**.

NOTE: Contact Dell if you forget your administrator password.

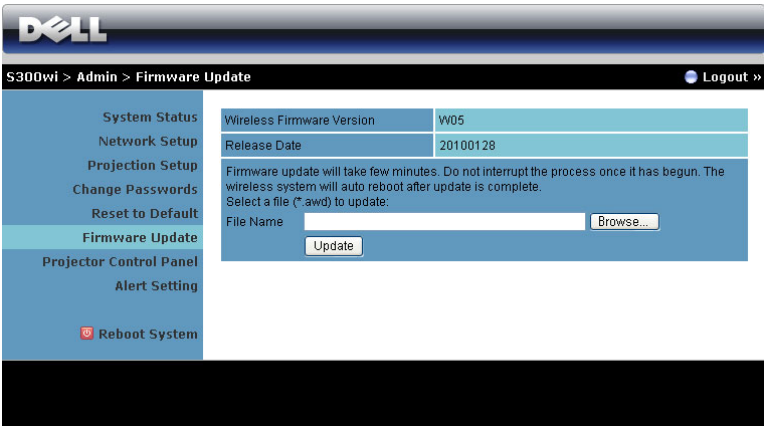
Reset to Default



Click the **Apply** button to restore all wireless/network setup to its factory default settings.

Firmware Update

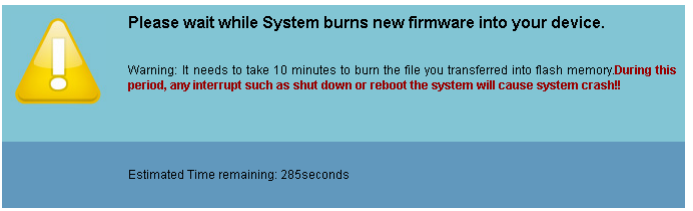
Use the Firmware Update page to update your projector's wireless firmware.



NOTE: Please disable and enable Wireless/network using the OSD to restart the network card for the projector after firmware upgrade is successful.

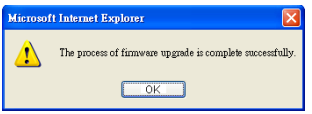
To start firmware update, do the following steps:

1. Press **Browse** to select the file to update.
2. Click the **Update** button to start. Wait while the system updates the firmware in your device.

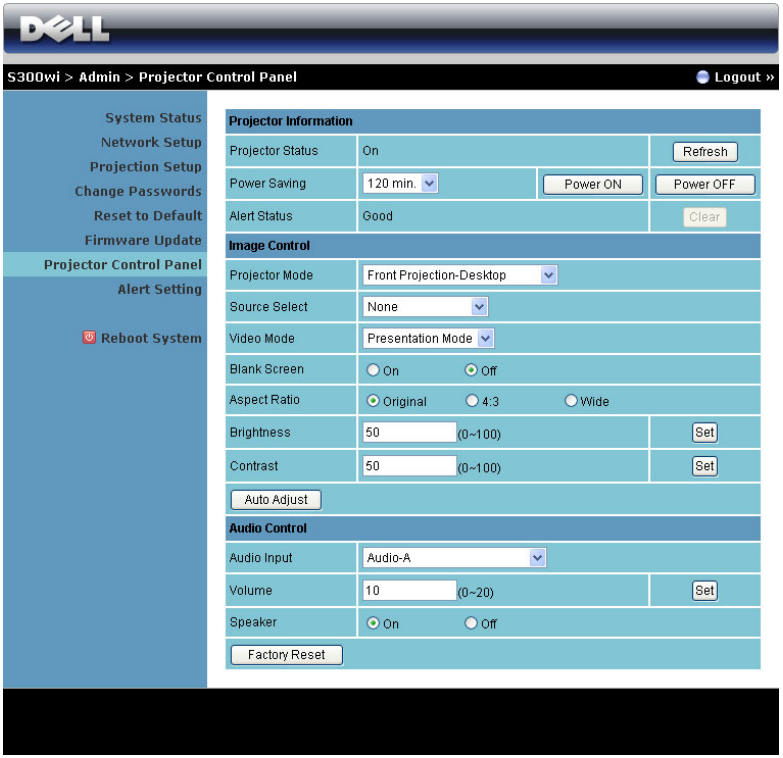


CAUTION: Do not interrupt the update process, this may cause the system to crash!

3. Click **OK** when update is complete.



Projector Control Panel



Projector Information

- **Projector Status**: There are 5 status: Lamp On, Standby, Power Saving, Cooling and Warming up. Click the Refresh button to refresh the status and control settings.
- **Power Saving**: Power Saving can be set to Off, 30, 60, 90, or 120 minutes. For more information, see "Power Saving" on page 60.
- **Alert Status**: There are 3alert status: Lamp warning, Low lamp life, and Temperature warning. Your projector might lock up in protection mode if any of the alerts are activated. To exit protection mode, click the Clear button to clear the Alert Status before you Power ON your projector.

Image Control

- **Projector Mode**: Allows you to select the projector mode, depending on how the projector is mounted. There are 4 projection modes: Front Projection-Desktop, Front Projection-Wall Mount, Rear Projection-Desktop and Rear Projection-Wall Mount.
- **Source Select**: The Source Select menu allows you to select your projector input source. You can select VGA-A, VGA-B, S-Video, Composite Video, HDMI, Wireless Display, USB Display and USB Viewer.
- **Video Mode**: Select a mode to optimize the display image based on how the projector is being used:
  - **Presentation**: Best for presentation slides.
  - **Bright**: Maximum brightness and contrast.
  - **Movie**: For viewing movie & photo.
  - **sRGB**: Provide a more accurate color representation.
  - **Custom**: User preferred settings.
- **Blank Screen**: You can select On or Off.
- **Aspect Ratio**: Allows you to select the aspect ratio to adjust how the image appears.
- **Brightness**: Select value to adjust the brightness of the image.
- **Contrast**: Select value to adjust the display contrast.

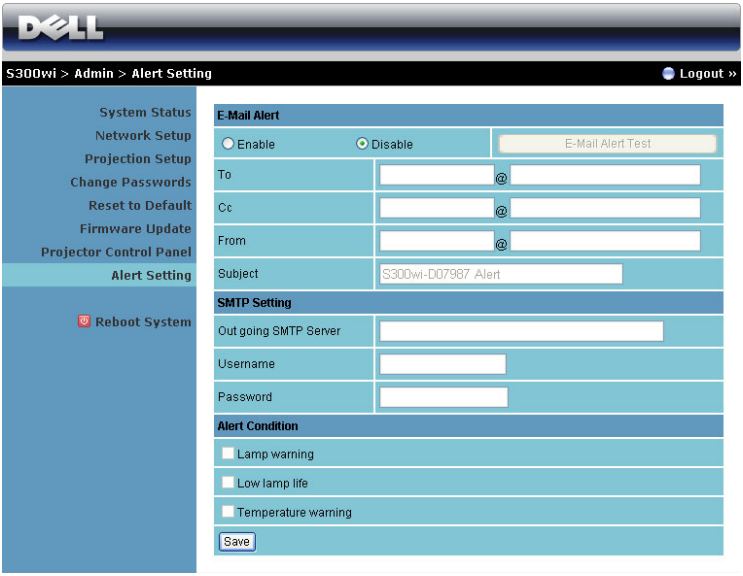
Click the **Auto Adjust** button to adjust the settings automatically.

Audio Control

- **Audio Input**: Select the input source. Options are: Audio-A, Audio-B, HDMI and Microphone.
- **Volume**: Select the value (0~20) for audio volume.
- **Speaker**: Select On to enable the audio function or select Off to disable the audio function.

Click the **Factory Reset** button to restore the factory defaults settings.

Alert Setting



E-mail Alert

- E-mail Alert: You can set whether to be notified by email (Enable) or not (Disable).
- To/CC/From: You can enter email address of sender (From) and recipients (To/Cc) to receive notification when an abnormality or warning occurs.
- Subject: You can enter the subject line of the email.

Click the **E-mail Alert Test** button to test the e-mail alert settings.

SMTP Setting

- **Out going SMTP server**, **User name** and **Password** should be provided by your network administrator or MIS.

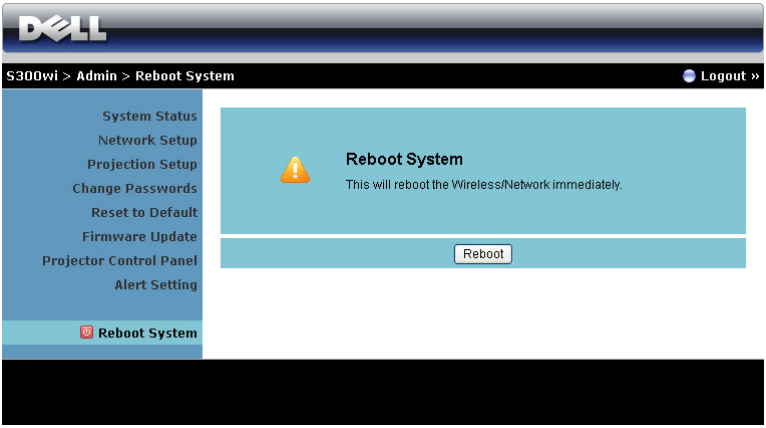
Alert Condition

- You can select the abnormalities or warnings to be notified by email. When any of the alert conditions occur, an email will be sent to the recipients (To/Cc).

Click the **Save** button to save settings.

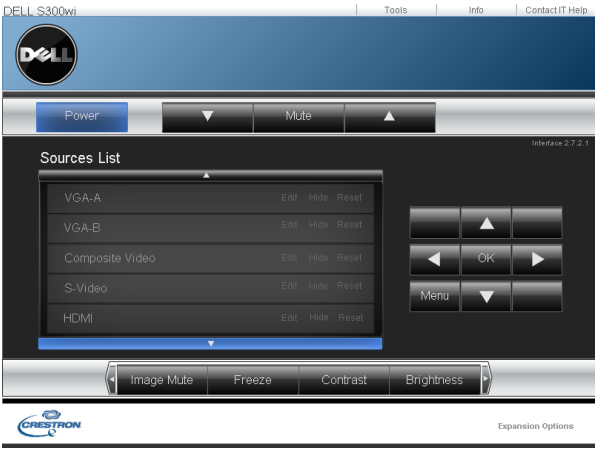
NOTE: E-mail alert is designed to work with a standard SMPT server using default 25 port. It does not support encryption and authentication (SSL or TLS).

Reboot System



Click **Reboot** to reboot the system.

Crestron



For Crestron function.

TIPS:

I would like to remotely access the projector via Internet. What is the better setting for the browser?

To have a better setting for the browser, please follow the steps below:

1. Open **Control Panel** → **Internet Options** → **General** tab → **Temporary Internet Files** → **Settings** → Select **Every visit to the pages**.
2. Some firewall or anti-virus may block the HTTP application, if possible turn off the firewall or anti-virus.

I would like to remotely access the projector via Internet. What socket port number should I open for it in the firewall?

The following are TCP/IP socket ports which projector uses.

UDP/TCP	Port Number	Description
TCP	80	Web configuration (HTTP)
UDP/TCP	25	SMTP: used for email routing between mail servers
UDP/TCP	161	SNMP: Simple Network Management Protocol
UDP	9131	AMX: used for AMX discovery

Why am I unable to access the projector via Internet?

1. Check whether your computer/laptop is connected to the Internet.
2. Check with your MIS or network administrator whether your computer/laptop is in the same subnet.

Why am I unable to access the SMTP server?	1 Check with your MIS or network administrator whether the SMTP server function is open for the projector and the IP assigned to the projector is allowed to access the SMTP server. The projector's SMTP socket port number is 25, this cannot be changed. 2 Check if the out going SMTP server, user name, and password are set correctly. 3 Some SMTP servers will check whether the mail address of "From" correlates with the "User name" and "Password". For example, you use test@dell.com as the mail address in "From". You should also use test@dell.com account information for the User name and the password to log in the SMTP server.
Why am I unable to receive the test alert email even though the projector already indicates the test mail is already sent?	It could be because the SMTP server recognized the alert mail as a spam mail or because of the SMTP server restriction. Check with your MIS or network administrator for the SMTP server's setting.

Firewall Configuration and FAQ

Q: Why can't I access the Web Management Page?

A: Your computer's firewall configuration may prevent you from accessing the Web Management Web Page. Please refer to the following configuration settings.

Firewall Protection	Configuration
McAfee Security Center	**1** Launch McAfee Security Center (Start > All Programs > McAfee > McAfee Security Center). **2** On the **personal firewall plus** tab, click **View the Internet Applications List**. **3** Find and select **Dell S300wi Projector** from the list. **4** Right click on its **Permissions** column. **5** Select **Allow Full Access** from the pop-up menu.
Norton AntiVirus	**1** Open Norton AntiVirus (Start > All Programs > Norton AntiVirus > Norton AntiVirus). **2** Click **Options** menu, then select **Norton AntiVirus**. **3** On the **Status** page, select **Internet Worm Protection**. **4** Find and select **Dell S300wi Projector** from the list of programs. **5** Right click on its **Internet Access** column. **6** Select **Permit All** from the pop-up menu. **7** Click **OK**.
Sygate Personal Firewall	**1** Open Sygate Personal Firewall (Start > All Programs > Sygate > Sygate Personal Firewall). **2** From the **Running Applications** list, find and right click on **Dell S300wi Projector**. **3** Select **Allow** from the pop-up menu.

Firewall Protection	Configuration
Windows Firewall	1 Open Windows Firewall (Start > All Programs > Control Panel). Double click on **Windows Firewall**. 2 On the **General** tab, uncheck **Don't allow exceptions**. 3 On the **Exceptions** tab, click the **Add Program...** button. 4 Find and select **Dell S300wi Projector** from the list of programs, then click **OK**. 5 Click **OK** to confirm exceptions settings.
Zone Alarm	1 Open Zone Alarm Firewall (Start > All Programs > Zone Labs > Zone Labs Center). 2 On the **Program Control** page, find and select **Dell S300wi Projector** from the list. 3 Right click on its **Access-Trusted** column. 4 Select **Allow** from the pop-up menu. 5 Right click and select **Allow** for the **Access-Internet**, **Server-Trusted**, and **Server-Internet** columns.

Make Application Token

The Application Token lets you perform Plug and Show using a USB token.

1. From the application software, click > **Make Application Token**.
2. The following screen appears. Click **Next**.

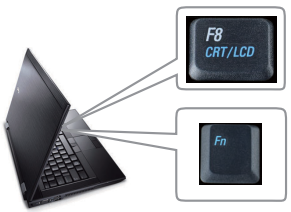
3. Plug a flash drive into any of the USB ports on your computer. Select the drive from the list, then click **Next**.

4. Click **Finish** to close the wizard.

4

Troubleshooting Your Projector

If you experience problems with your projector, see the following troubleshooting tips. If the problem persists, contact Dell™ (see Contacting Dell™ on page 119).

Problem	Possible Solution
No image appears on the screen 	• Ensure that the lens cap is removed and the projector is turned on. • Ensure that you have chosen the correct input source on the INPUT SELECT menu. • Ensure the external graphics port is enabled. If you are using a Dell™ Laptop computer, press Fn + F8 CRT/LCD (Fn+F8). For other computers, see your respective documentation. If images are not displayed properly, please upgrade the video driver of your computer. For Dell computer, see support.dell.com. • Ensure that all the cables are securely connected. See "Connecting Your Projector" on page 12. • Ensure that the pins of the connectors are not bent or broken. • Ensure that the lamp is securely installed (see "Changing the Lamp" on page 111). • Use **Test Pattern** in the **Others** menu. Ensure that the colors of the test pattern are correct.
Missing Input Source. Cannot switch to particular Input Source.	Go to Advanced Enable/Disable Sources, ensure that particular Input Source is set to Enable.

Problem ***(continued)***	**Possible Solution** ***(continued)***
Partial, scrolling, or incorrectly displayed image	**1** Press the **Auto Adjust** button on the remote control or the control panel. **2** If you are using a Dell™ portable computer, set the resolution of the computer to WXGA (1280 x 800) or XGA (1024 x 768): **a** Right-click the unused portion of your Microsoft® Windows® desktop, click **Properties** and then select **Settings** tab. **b** Verify that the setting is 1280 x 800 or 1024 x 768 pixels for the external monitor port. **c** Press Fn F8 (Fn+F8). If you experience difficulty in changing resolutions or your monitor freezes, restart all the equipment and the projector. If you are not using a Dell™ portable computer, see your documentation. If images are not displayed properly, please upgrade the video driver of your computer. For a Dell computer, see support.dell.com.
The screen does not display your presentation	If you are using a portable computer, press Fn F8 (Fn+F8).
Image is unstable or flickering	Adjust the tracking in the OSD **Display** sub-menu (in PC Mode only).
Image has vertical flickering bar	Adjust the frequency in the OSD **Display** sub-menu (in PC Mode only).
Image color is incorrect	• If the display receives the wrong signal output from the graphics card, please set the signal type to **RGB** in the OSD **Display** tab. • Use **Test Pattern** in the **Others** menu. Ensure that the colors of the test pattern are correct.
Image is out of focus	**1** Adjust the focus ring on the projector lens. **2** Ensure that the projection screen is within the required distance from the projector (1.64 ft [0.5 m] to 10.83 ft [3.3 m]).

Problem ***(continued)***	**Possible Solution** ***(continued)***
The image is stretched when displaying a 16:9 DVD	The projector automatically detects the input signal format. It will maintain the aspect ratio of the projected image according to input signal format with an Original setting. If the image is still stretched, adjust the aspect ratio in the **Set Up** menu in the OSD.
Image is reversed	Select **Set Up** from the OSD and adjust the projector mode.
Lamp is burned out or makes a popping sound	When the lamp reaches its end of life, it may burn out and may make a loud popping sound. If this occurs, the projector does not turn back on. To replace the lamp, see "Changing the Lamp" on page 111.
LAMP light is solid amber	If the **LAMP** light is solid amber, replace the lamp.
LAMP light is blinking amber	If the **LAMP** light is blinking amber, Lamp module connection may be disrupted. Please check the lamp module and ensure that it is properly installed. If the **LAMP** light and the **Power** light are blinking amber, the lamp driver has failed and the projector will automatically shut down. If the **LAMP** and **TEMP** light are blinking amber and the **Power** light is solid blue, the color wheel has failed and the projector will automatically shut down. To clear the protection mode, press and hold the POWER button for 10 seconds.
TEMP light is solid amber	The projector has overheated. The display automatically shuts down. Turn the display on again after the projector cools down. If the problem persists, contact Dell™.

Problem ***(continued)***	**Possible Solution** ***(continued)***
TEMP light is blinking amber	If the projector fan fails, the projector will automatically shut down. Try to clear the projector mode by pressing and holding the **POWER** button for 10 seconds. Please wait for about 5 minutes and try to power up again. If the problem persists, contact Dell™.
The OSD does not appear on the screen	Try to press the Menu button on the panel for 15 seconds to unlock the OSD. Check the **Menu Lock** on page 58.
The remote control is not operating smoothly or works only within a limited range	The battery may be low. Check if the laser beam transmitted from the remote is too dim. If so, replace with 2 new AAA batteries.
Cannot use the Pen or cannot connect the Pen	• Check if the input source is PC (VGA, HDMI, Wireless and LAN source) • Check if the Interactive function is turned On. (Menu -> OTHERS -> Interactive) • Check if the Connection option is set correctly. (Menu -> OTHERS -> Interactive -> Connection) • When using Wireless or LAN connection, and the Pen does not work,check if the Wireless/Network function is turned On. (Menu -> SET UP -> Wireless / Network) • When using Wireless or LAN connection, check if Dell Wireless Application Software is connected. (Only support full screen mode output). • Check if Photo sensor is facing towards the screen. • If more than one Pen point toward the screen at the same time, none can function. • Push any key to wake up (except Nib button).
The LED does not work.	**a** Check if the battery is installed. **b** Check if the battery is installed correctly. **c** Check if the battery is not depleted.

Problem ***(continued)***	**Possible Solution** ***(continued)***
The Amber LED is continuously lit	The battery is low, change a new one.
The Green LED is continuously lit, but the cursor does not move, and the projector screen displays "USB connection is not detected".	Check if the Mini USB is connected.
Cannot select Interactive	Check if there is a PC (VGA, HDMI, Wireless and LAN source) input source.
Cannot use the Pen in 3D source.	**a** The 3D source is not supported. **b** Output signal of 120 Hz is not supported.
Cannot use the Pen in Composite Video or S-Video source.	Composite Video or S-Video source is not supported.
Cannot use Nib	If the Nib is worn out, replace with a new Nib.
When using USB Display, can Wireless USB function be used?	Wireless USB function is not supported.

Guiding Signals

Projector Status	Description	Control Buttons	Indicator	
		Power	TEMP (Amber)	LAMP (Amber)
Standby mode	Projector in Standby mode. Ready to power on.	BLUE Flashing	OFF	OFF
Warming up mode	Projector takes some time to warm up and power on.	BLUE	OFF	OFF
Lamp on	Projector in Normal mode, ready to display an image. **Note**: The OSD menu is not accessed.	BLUE	OFF	OFF
Cooling mode	Projector is cooling to shutdown.	BLUE	OFF	OFF
Power Saving mode	Power Saving mode has been activated. The projector will automatically enter standby mode, if an input signal is not detected in two hours.	AMBER Flashing	OFF	OFF
Cooling before Power Saving mode	The projector takes 60 seconds to cool down before entering Power Saving mode.	AMBER	OFF	OFF
Projector overheated	Air vents might be blocked or ambient temperature may be above 35ºC. The projector automatically shuts down. Ensure that the air vents are not blocked and that the ambient temperature is within operational range. If the problem persists, contact Dell.	OFF	AMBER	OFF
Lamp driver overheated	The lamp driver is overheated. The air vents may be blocked. The projector automatically shuts down. Turn the display on again after the projector cools down. If the problem persists, contact Dell.	AMBER	AMBER	OFF
Fan breakdown	One of the fans has failed. The projector automatically shuts down. If the problem persists, contact Dell.	OFF	AMBER Flashing	OFF
Lamp driver breakdown	The lamp driver has failed. The projector automatically shuts down. Unplug the power cord after three minutes then turn the display on again. If this problem persists, contact Dell.	AMBER Flashing	OFF	AMBER Flashing
Color Wheel breakdown	Color wheel cannot start. The projector has failed and the projector automatically shuts down. Unplug the power cord after three minutes and then turn on the projector. If this problem persists, contact Dell.	BLUE	AMBER Flashing	AMBER Flashing

Lamp failure	Lamp is defective. Replace the lamp.	OFF	OFF	AMBER
Fault - DC supply (+12V)	Power supply has been interrupted. The projector automatically shuts down. Unplug the power cord after three minutes and then turn on the projector. If this problem persists, contact Dell.	AMBER Flashing	AMBER	AMBER
Lamp module connection failed	Lamp module connection may be disrupted. Check the lamp module and ensure that it is properly installed. If the problem persists, contact Dell.	OFF	OFF	AMBER Flashing

Interactive Pen LED Guiding Signals

Pen Status	Description	Indicator		Checking flow and items / times
		Green color	Amber color	
Normal mode	Pen faces the screen with the link.	Solid ON	OFF	
Standby mode	Pen doesn't faces the screen but with the link.	Flashing 0.1s ON/1s OFF	OFF	Will enter Sleep mode after 3 minutes.
Finding AP then enter pairing	Find AP then enter Pairing mode.	Flashing	Flashing	Flash Amber one time, next flash Green one time, then turn off both.
Search mode	When you search for a channel and no signal is available, LED Green & Amber will blink 1 time.	Flashing 0.1 sec.	Flashing 0.1 sec.	When you search for a channel and no signal is available, LED Green & Amber will blink 1 time.
Sleep mode	Enter Sleep mode for power saving purpose.	Solid ON 3 sec.	Solid ON 3 sec.	• Set the Interactive to OFF on OSD menu when using pen with the link: will enter Sleep mode after 5 sec. • Pen doesn't face the screen but with the link: will enter Sleep mode after 3 minutes. • Reloading the battery will restart or reset first. After searching for AP channel 3 cycles without a link, will enter Sleep mode.
Reset	Pairing or linking failure will perform the reset automatically.	Flashing	Flashing	Green and Amber LED flash alternatively. The total is 3 times.
Low battery capability	The pen battery is low. Two hours are left to run out of the battery.	OFF	Flashing 1s On & 1s OFF	The MSP430 will check battery capacity in normal operation. This alert LED signal is shown if the battery capacity is low. **Note:** This signal is shown only when pen faces the interactive screen.
Battery is exhausted and can not run PB.	The Photo sensor and RF module cannot work properly. Pen can not work normally.	OFF	Solid ON	The pen battery is exhausted. Power only works for MSP430. The alert LED will appear 1 minute to save power and then enter Standby mode. Pen cannot be used in this status. **Note:** This signal is shown only when the pen faces the interactive screen.

Changing the Lamp

CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions as described on page 10.

Replace the lamp when the message "**Lamp is approaching the end of its useful life in the operation. Replacement suggested! www.dell.com/lamps**" appears on the screen. If this problem persists after replacing the lamp, contact Dell™. For more information, see Contacting Dell™ on page 119.

CAUTION: Use an original lamp to ensure safe and optimal working condition of your projector.

CAUTION: The lamp becomes very hot when in use. Do not attempt to replace the lamp until the projector has been allowed to cool down for at least 30 minutes.

CAUTION: Do not touch the bulb or the lamp glass at any time. Projector lamps are very fragile and may shatter if touched. The shattered glass pieces are sharp and can cause injury.

CAUTION: If the lamp shatters, remove all broken pieces from the projector and dispose or recycle according to state, local, or federal law. For more information see www.dell.com/hg.

1. Turn off the projector and disconnect the power cord.
2. Let the projector cool for at least 30 minutes.
3. Loosen the two screws that secure the lamp cover, and remove the cover.
4. Loosen the two screws that secure the lamp.
5. Pull the lamp up by its metal handle.

NOTE: Dell™ may require lamps replaced under warranty to be returned to Dell™. Otherwise, contact your local waste disposal agency for the address of the nearest deposit site.

6. Replace with the new lamp.
7. Tighten the two screws that secure the lamp.
8. Replace the lamp cover and tighten the two screws.

9 Reset the lamp usage time by selecting "Yes" for **Lamp Reset** in the OSD **Lamp** tab (see Lamp menu on page 53). When a new lamp module has been changed, the projector will automatically detect and reset the lamp hours.

CAUTION: Lamp Disposal (for the US only)

LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. FOR MORE INFORMATION, GO TO WWW.DELL.COM/HG OR CONTACT THE ELECTRONIC INDUSTRIES ALLIANCE AT WWW.EIAE.ORG. FOR LAMP SPECIFIC DISPOSAL INFORMATION CHECK WWW.LAMPRECYCLE.ORG.

5

Specifications

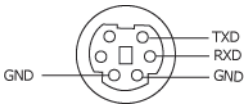
Light Valve	0.65" WXGA S450 DMD, DarkChip3™
Brightness	2200 ANSI Lumens (Max.)
Contrast Ratio	2400:1 Typical (Full On/Full Off)
Uniformity	80% Typical (Japan Standard - JBMA)
Number of Pixels	1280 x 800 (WXGA)
Displayable Color	1.07 billion colors
Color Wheel Speed	2X
Projection Lens	F-Stop: F/ 2.8 Focal length, f=7.2 mm Fix Throw ratio =0.521 wide and tele
Projection Screen Size	44.6-294 inches (diagonal)
Projection Distance	1.64~10.83 ft (0.5 m~3.3 m)
Video Compatibility	Composite Video / S-Video: NTSC (J, M, 4.43), PAL (B, D, G, H, I, M, N, Nc, 60), SECAM (B, D, G, K, K1, L)
	Component Video via VGA & HDMI: 1080i/p, 720p, 576i/p, 480i/p
Power Supply	Universal AC 100-240 50-60 Hz with PFC input
Power Consumption	Normal mode: 256W ± 10% @ 110Vac (Wireless and Network On)
	Power saving mode: <20W (Wireless and Network On, fan speed at minimum)
	Standby mode: < 1W (Network Off & VGA_OUT Off & Wireless Off)
Audio	1 speaker x 8 watt RMS
Noise Level	33 dB +/- 2 dB(A)

Weight	6.9 lbs (3.13 kg) +/- 0.05 lbs
Pen Weight	0.14 lbs (65 g) +/- 0.01 lbs (without battery)
Dimensions (W x H x D)	12 x 3.9 x 9.7 inches (306 x 99 x 246.5 mm)
Projector	
Dimensions (W x H x D)	6.94 x 1.24 x 0.98 inches (176.2 x 31.5 x 25 mm)
Interactive Pen	
Environmental	Operating temperature: 5ºC - 35ºC (41ºF- 95ºF) Humidity: 80% maximum Storage temperature: 0ºC to 60ºC (32ºF to 140ºF) Humidity: 90% maximum Shipping temperature: -20ºC to 60ºC (-4ºF to 140ºF) Humidity: 90% maximum
I/O Connectors	Power: One AC power socket (3-pin - C14 inlet) VGA input: Two 15-pin D-sub connectors (Blue), VGA-A & VGA-B, for analog RGB/Component input signals. VGA output: One 15-pin D-sub connector (Black) for VGA-A loop through.

	S-Video input: One standard 4-pin min-DIN S-Video connector for Y/C signal.
	Composite Video input: One Yellow RCA jack for CVBS signal.
	HDMI input: One HDMI connector for supporting HDMI 1.3. HDCP compliant.
	Analog Audio input: One 3.5 mm stereo mini phone jack (Blue) & one pair of RCA connector (Red/White).
	Variable audio output: One 3.5 mm stereo mini phone jack (Green).
	USB port: One USB slave (Mini USB) for remote support & two type-A/type-B of USB connector.
	RS232 port: One mini-DIN 6-pin for RS232 communication.
	RJ45 port: One RJ45 connector for control of projector through network.
	Microphone: One 3.5 mm stereo mini phone jack (Pink).
	12V output: One 12V DC / 200mA max. relay output for driving automatic screen.
Wireless	Wireless Standard: IEEE802.11b/g
	Wireless: One Wireless connector (Embedded WiFi).
	OS environment: Windows 7/Vista/XP/2000, MAC OS X
	Support: Presentation slides and projector control.
	Allow connection up to 30 users at the same time.
	4-to-1 split screen. Allow 4 presentation slides to be projected on screen.
	Conference Control mode.
Lamp	OSRAM 190 user-replaceable lamp (up to 5000 hours)

NOTE: The lamp life rating for any projector is a measure of brightness degradation only, and is not a specification for the time it takes a lamp to fail and cease light output. Lamp life is defined as the time it takes for more than 50 percent of a lamp sample population to have brightness decrease by approximately 50 percent of the rated lumens for the specified lamp. The lamp life rating is not guaranteed in any way. The actual operating life span of a projector lamp will vary according to operating conditions and usage patterns. Usage of a projector in stressful conditions which may include dusty environments, under high temperatures, many hours per day and abrupt powering-off will most likely result in a lamp's shortened operating life span or possible lamp failure.

RS232 Pin Assignment



RS232 Protocol

- Communication Settings

Connection settings	Value
Baud Rate:	19200
Data Bits:	8
Parity	None
Stop Bits	1

- **Command types**

  To pop up the OSD menu and adjust the settings.
- **Control command Syntax (From PC to Projector)**

  [H][AC][SoP][CRC][ID][SoM][COMMAND]
- **Example**: Power ON Command (Send low byte firstly)

  --> 0xBE, 0xEF, 0x10, 0x05, 0x00, 0xC6, 0xFF, 0x11, 0x11, 0x01, 0x00, 0x01
- **Control Commands List**

  To view the latest RS232 code, go to the Dell Support site at: **Support.dell.com**.

Compatibility Modes (Analog/Digital)

Resolution	Refresh Rate (Hz)	Hsync Frequency (KHz)	Pixel Clock (MHz)
640 x 350	70.087	31.469	25.175
640 x 480	59.940	31.469	25.175
640 x 480 p60	59.940	31.469	25.175
720 x 480 p60	59.940	31.469	27.000
720 x 576 p50	50.000	31.250	27.000
720 x 400	70.087	31.469	28.322
640 x 480	75.000	37.500	31.500
848 x 480	60.000	31.020	33.750
640 x 480	85.008	43.269	36.000
800 x 600	60.317	37.879	40.000
800 x 600	75.000	46.875	49.500
800 x 600	85.061	53.674	56.250
1024 x 768	60.004	48.363	65.000
1280 x 720 p50	50.000	37.500	74.250
1280 x 720 p60	60.000	45.000	74.250
1920 x 1080 i50	50.000	28.125	74.250
1920 x 1080 i60	60.000	33.750	74.250
1280 x 720	59.855	44.772	74.500
1024 x 768	75.029	60.023	78.750
1280 x 800	59.810	49.702	83.500
1366 x 768	59.790	47.712	85.500
1360 x 768	60.015	47.712	85.500
1024 x 768	84.997	68.677	94.500
1440 x 900	59.887	55.935	106.500
1152 x 864	75.000	67.500	108.000
1280 x 960	60.000	60.000	108.000
1280 x 1024	60.020	63.981	108.000
1152 x 864	85.000	77.095	119.651
1400 x 1050	59.978	65.317	121.750
1280 X 800	84.880	71.554	122.500
1280 x 1024	75.025	79.976	135.000
1440 X 900	74.984	70.635	136.750
1680 x 1050	59.954	65.290	146.250
1280 x 960	85.002	85.938	148.500
1920 x 1080	60.000	67.500	148.500
1400 X 1050	74.867	82.278	156.000
1280 x 1024	85.024	91.146	157.000
1440 X 900	84.842	80.430	157.000
1600 x 1200	60.000	75.000	162.000

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell™ provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit **Support.dell.com**.
2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
3. Click **Contact Us** on the left side of the page.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

Contacting eInstruction

eInstuction provides phone based and online technical support options. Availability varies by country, but an e-mail to techsupport@einstruction.com can be directed appropriately for users in any country.

USA eInstruction Software Technical Support

Phone: 480-443-2214 or 800-856-0732

Email: Techsupport@einstruction.com

International eInstruction Software Technical Support, EMEA

Phone: +33 1 58 31 1065

Email: EU.Support@einstruction.com

Web-based Technical Support is available at:

www.einstruction.com (in US)

www.einstruction.de (in Germany)

www.einstruction.fr (in France)

www.einstruction.it (in Italy)

www.einstruction.es (in Spain)

Appendix: Glossary

ANSI Lumens — A standard for measuring the brightness. It is calculated by dividing a square meter image into nine equal rectangles, measuring the lux (or brightness) reading at the center of each rectangle, and averaging these nine points.

Aspect Ratio — The most popular aspect ratio is 4:3 (4 by 3). Early television and computer video formats are in a 4:3 aspect ratio, which means that the width of the image is 4/3 times the height.

Brightness — The amount of light emitted from a display or projection display or projection device. The brightness of projector is measured by ANSI lumens.

Color Temperature — The color appearance of white light. Low color temperature implies warmer (more yellow/red) light while high color temperature implies a colder (more blue) light. The standard unit for color temperature is Kelvin (K).

Component Video — A method of delivering quality video in a format that consists of the luminance signal and two separate chrominance signals and are defined as Y'Pb'Pr' for analog component and Y'Cb'Cr' for digital component. Component video is available on DVD players.

Composite Video — A video signal that combines the luma (brightness), chroma (color), burst (color reference), and sync (horizontal and vertical synchronizing signals) into a signal waveform carried on a single wire pair. There are three kind of formats, namely, NTSC, PAL and SECAM.

Compressed Resolution — If the input images are of higher resolution than the native resolution of the projector, the resulting image will be scaled to fit the native resolution of the projector. The nature of compression in a digital device means that some image content is lost.

Contrast Ratio — Range of light and dark values in a picture, or the ratio between their maximum and minimum values. There are two methods used by the projection industry to measure the ratio:

1. *Full On/Off* — measures the ratio of the light output of an all white image (full on) and the light output of an all black (full off) image.
2. *ANSI* — measures a pattern of 16 alternating black and white rectangles. The average light output from the white rectangles is divided by the average light output of the black rectangles to determine the *ANSI* contrast ratio.

Full On/Off contrast is always a larger number than *ANSI* contrast for the same projector.

dB — decibel **—** A unit used to express relative difference in power or intensity, usually between two acoustic or electric signals, equal to ten times the common logarithm of the ratio of the two levels.

Diagonal Screen — A method of measuring the size of a screen or a projected image. It measures from one corner to the opposite corner. A 9FT high, 12FT wide, screen has a diagonal of 15FT. This document assumes that the diagonal dimensions are for the traditional 4:3 ratio of a computer image as per the example above.

DHCP — Dynamic Host Configuration Protocol **—** A network protocol that enables a server to automatically assign a TCP/IP address to a device.

DLP® — Digital Light Processing™ **—** Reflective display technology developed by Texas Instruments, using small manipulated mirrors. Light passes through a color filter is sent to the DLP mirrors which arrange the RGB colors into a picture projected onto screen, also known as DMD.

DMD — Digital Micro-Mirror Device **—** Each DMD consists of thousands of tilting, microscopic aluminum alloy mirrors mounted on a hidden yoke.

DNS — Domain Name System **—** An internet service that translates domain names into IP addresses.

Focal Length — The distance from the surface of a lens to its focal point.

Frequency — It is the rate of repetition in cycles per seconds of electrical signals. Measured in Hz (Hertz).

HDCP — High-Bandwidth Digital-Content Protection **—** A specification developed by Intel™ Corporation to protect digital entertainment across digital interface, such as DVI, HDMI.

HDMI — High-Definition Multimedia Interface **—** HDMI carries both uncompressed high definition video along with digital audio and device control data in a single connector.

Hz (Hertz) — Unit of frequency.

IEEE802.11 — A set of standards for wireless local are network (WLAN) communication. 802.11b/g uses the 2.4GHz band.

Keystone Correction — Device that will correct an image of the distortion (usually a wide-top narrow-bottom effect) of a projected image caused by improper projector to screen angle.

Maximum Distance — The distance from a screen the projector can be to cast an image that is usable (bright enough) in a fully darkened room.

Maximum Image Size — The largest image a projector can throw in a darkened room. This is usually limited by focal range of the optics.

Minimum Distance — The closest position that a projector can focus an image onto a screen.

NTSC — National Television Standards Committee. North American standard for video and broadcasting, with a video format of 525 lines at 30 frames per second.

PAL — Phase Alternating Line. A European broadcast standard for video and broadcasting, with a video format of 625 lines at 25 frames per second.

Reverse Image — Feature that allows you to flip the image horizontally. When used in a normal forward projection environment text, graphics, etc. are backwards. Reverse image is used for rear projection.

RGB — Red, Green, Blue — typically used to describe a monitor that requires separate signals for each of the three colors.

S-Video — A video transmission standard that uses a 4-pin mini-DIN connector to send video information on two signal wires called luminance (brightness, Y) and chrominance (color, C). S-Video is also referred to as Y/C.

SECAM — A French and international broadcast standard for video and broadcasting, closely related to PAL but with a different method of sending color information.

SSID — Service Set Identifiers — A name used to identify the particular wireless LAN to which a user wants to connect.

SVGA — Super Video Graphics Array — 800 x 600 pixels count.

SXGA — Super Extended Graphics Array, — 1280 x 1024 pixels count.

UXGA — Ultra Extended Graphics Array — 1600 x 1200 pixels count.

VGA — Video Graphics Array — 640 x 480 pixels count.

WEP — Wired Equivalent Privacy — This is a method for encrypting communication data. The encryption key is created and notified only to the communicating user, so the communication data cannot be decrypted by a third party.

XGA — Extended Video Graphics Array — 1024 x 768 pixels count.

WXGA — Wide Extended Graphics Array — 1280 x 800 pixels count.

Zoom Lens — Lens with a variable focal length that allows operator to move the view in or out making the image smaller or larger.

Zoom Lens Ratio — Is the ratio between the smallest and largest image a lens can projector from a fixed distance. For example, a 1.4:1 zoom lens ratio means that a 10 foot image without zoom would be a 14 foot image with full zoom.

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